

# INTERNATIONAL SOYBEAN VARIETY EXPERIMENT

THIRD REPORT OF RESULTS
1975

D.K. Whigham and W.H. Judy



International Agricultural Publications INTSOY Series Number 15

COLLEGE OF AGRICULTURE
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

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D. K. WHIGHAM and W. H. JUDY

College of Agriculture University of Illinois at Urbana-Champaign

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#### FOREWORD

We are pleased to add the Third Report of Results of the International Soybean Variety Experiment (ISVEX) to the INTSOY Publication Series. The first and second reports are numbers 8 and 11 in the Series, respectively.

INTSOY was established at the University of Illinois and University of Puerto Rico to give leadership within a network of national and international organizations for soybean research and educational work. The objective of this program is to expand the use of soybeans for human food. The geographic orientation is toward tropical and sub-tropical areas of the world where protein-calorie malnutrition problems tend to be concentrated. However, the perspective is world-wide.

ISVEX was initiated in 1973 as the first part of a genetic improvement program. The objectives are to evaluate soybean cultivars (varieties) for wide environmental adaptability and to provide countries with improved cultivars for introduction or for breeding programs. Another important dividend has been the accumulation of more knowledge about the response of soybeans to different skills in management and to various temperatures and daylength environments. With the cumulative results from more growing seasons, the purposes for this trial are being attained. The importance of careful cultivar selection and improved management during production and harvesting is clearly demonstrated.

ISVEX is one phase of INTSOY's genetic improvement program. The Soybean Preliminary Observation Trial (SPOT) was organized in 1975 to provide the environmental response of newly-developed cultivars at a limited number of sites. These cultivars are obtained from selections in the INTSOY breeding program in Puerto Rico and from programs of cooperators at various international sites. Selections are made from SPOT for inclusion in ISVEX. A new trial was organized in 1978 to tap the pool of germplasm being developed in country programs throughout the world--the Soybean International Experiment Variety Evaluation (SIEVE). Selections from SIEVE are entered into the SPOT trials.

A world-wide variety testing program such as ISVEX requires the cooperation and resources of many organizations and individuals. Foremost in importance are those cooperators who conduct the trials. They record data and send it to INTSOY for analysis. The United States Agency for International Development has provided the general program resources to make ISVEX possible. The Food and Agriculture Organization of the United Nations has provided technical supervision and assistance in sending seed to a number of countries. Other international organizations have provided support, especially the United Nations Development Program. The many services of the Statistical Laboratory of the Department of Agronomy, University of Illinois at Urbana-Champaign, are gratefully acknowledged.

Leadership in organizing ISVEX was provided by D. Keith Whigham with the assistance of Robert Dunker. William H. Judy has ably succeeded Dr. Whigham and is giving leadership to ISVEX with the efficient assistance of Henry J. Hill. The sincere appreciation of all in the INTSOY network is expressed to the many who have made the variety testing program and the results reported in this publication possible.

William N. Thompson Director International Soybean Program (INTSOY).

## INTERNATIONAL SOYBEAN VARIETY EXPERIMENT THIRD REPORT OF RESULTS

This publication is the third report of results from the International Soybean Variety Evaluation Experiment (ISVEX), organized in 1973 by the International Soybean Program (INTSOY) at the University of Illinois, under a contract with the Agency for International Development, U. S. Department of State.

ISVEX was designed to meet the following objectives:

- 1. To test the adaptation of soybean cultivars (varieties) under a wide range of environmental conditions
- 2. To provide research workers with an opportunity to compare local and introduced cultivars
- 3. To provide a source of new germplasm, which a cooperator may use directly or incorporate into his breeding program
- 4. To identify areas of the world that have a potential for soybean production
  - 5. To evaluate the response of the soybean to different environments.

#### MATERIALS AND METHODS

#### Procedures

Instructions for management and data collection for ISVEX were sent with the seed shipment to each cooperator. Soybean seed for planting was provided to each cooperator in individual row packages. Granular inoculant was provided for distribution in the row with the seed prior to covering the seed with soil. The experiment was designed as a randomized complete block with four replications. Each variety was planted once in each block in a plot which consisted of four rows 5 m long and 60 cm apart. All observations, including the grain yield, were obtained from the two center rows.

It was suggested in the instructions that a trial site be chosen which had an identical crop history and where the soil was well drained. A soil analysis was recommended for determination of pH, organic matter, nitrogen, phosphorus, and potassium. A P fertility level of 35 kg/ha and a K level of 66 kg/ha was recommended. The pH level was recommended to be adjusted between 6.0 and 7.0.

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Sufficient seed was provided to overplant approximately 50%. It was recommended that the plants be thinned soon after emergence to a stand of one plant per 5 cm.

The method of weed control suggested was mechanical or chemical according to the facilities available to the cooperator.

Chemicals were recommended for control of insects.

#### Cultivars

The soybean cultivars tested in the third ISVEX during 1975 and early 1976 are listed in Table 1. The pedigree and maturity group of each cultivar are shown in the same table. The cultivars were selected for their consistent high yield performance for several years in the U. S. Department of Agriculture Regional Soybean Trials which originate in Urbana, Illinois and Stoneville, Mississippi. The entries were selected from U. S. cultivars in order to provide access to adequate quantities of high quality seed. Certified or foundation seed was purchased from sources in the areas of the United States where each variety was grown. At least one cultivar from each of the maturity groups 00 through IX was selected. Twelve cultivars were retained from the second ISVEX— and 13 new cultivars were added. The new entries included Cobb, Columbus, Woodworth, Amsoy 71, Hark, Beeson, Corsoy, Wells, Hodgson, Swift, Pickett 71, Bonus, and Altona. The 25 varieties were divided into early and late trials as shown in Table 1. The late trial was planted in environmental zones I - VIII, and the early trial was planted in zones IX - XIII.

In the instructions for the ISVEX trial, it was suggested that the cooperator might wish to substitute one or two local soybean cultivars for those which were supplied by INTSOY. Many cooperators did substitute and the data on the performance of these substituted cultivars may be seen in the report of the analysis of data.

#### Experiment Sites

The experiment sites were divided into environmental zones which were defined according to latitude and altitude. Separating the trial sites according to latitude permits evaluation of cultivars under similar conditions of day length. Separation according to altitude permits evaluation of cultivars under similar conditions of day- and night-time temperatures. There was some variation within each zone for temperature, moisture and radiation. The limits of each of the 13 zones and the number of sites are shown in Table 2. The trials were separated into groups within each 10 latitude from the equator and three altitude ranges divided 0-500 m, 501-1000 m, and above 1000 m.

Whigham, D. K., "International Soybean Variety Experiments - Second Report of Results" INTSOY Series No. 11, University of Illinois at Urbana-Champaign, 1976, 221p.

The environment dictated the optimum planting time for each site. Plantings were made throughout the year. The first planting was made on 6 January 1975 and the last on 5 April 1976. The trial was planted at several sites during more than one season of the year.

The third ISVEX was requested by 259 sites in 90 countries. Useful data were returned from 104 sites in 55 countries which are listed in Table 3. Figure 1 shows the locations of the countries. The experiment was tested under a wide range of environmental conditions represented by the range in latitude of 34° south in Chile to 47° north in Hungary and by altitudes from -2 m in Guyana to 1960 m in Ethiopia. However, 102 sites were located within 20° of the equator and at altitudes lower than 500 m.

A complete list of cooperators and their addresses is included in Table 4.

#### Data Collected

Data were reported for each plot by cooperators as follows:

Yield: Weight in grams of clean, dry grain from 5 m of the two center rows which is a harvest area of 6 m<sup>2</sup>.

Days to flower: Days from date of emergence to date when 50% of the plants have flowered.

Days to maturity: Days from date of emergence to date when 95% of the pods are ripe.

Nodule number: The number of nodules on the root system at the time when the first flowers appear and a second count of nodules three weeks after date of first flowering.

Nodule dry weight: Dry weight in grams of the nodules associated with the root system at the time first flowers appear and again three weeks after first flowering.

Plant height at maturity: Height in centimeters from the ground surface to the top of the main stem at maturity.

Lodging score: Estimated rating of lodged or down plants on a scale of 1 (all erect) to 5 (all down) as observed at time of maturity.

Shattering score: Estimated rating of the amount of shattering of seed from the pods on a scale of 1 (no seed shattered) to 5 (over 50% shattered) at the time of maturity.

Plants harvested: Total number of plants harvested from the two center rows of each plot.

Pods per plant: Average number of pods per plant at time of harvest.

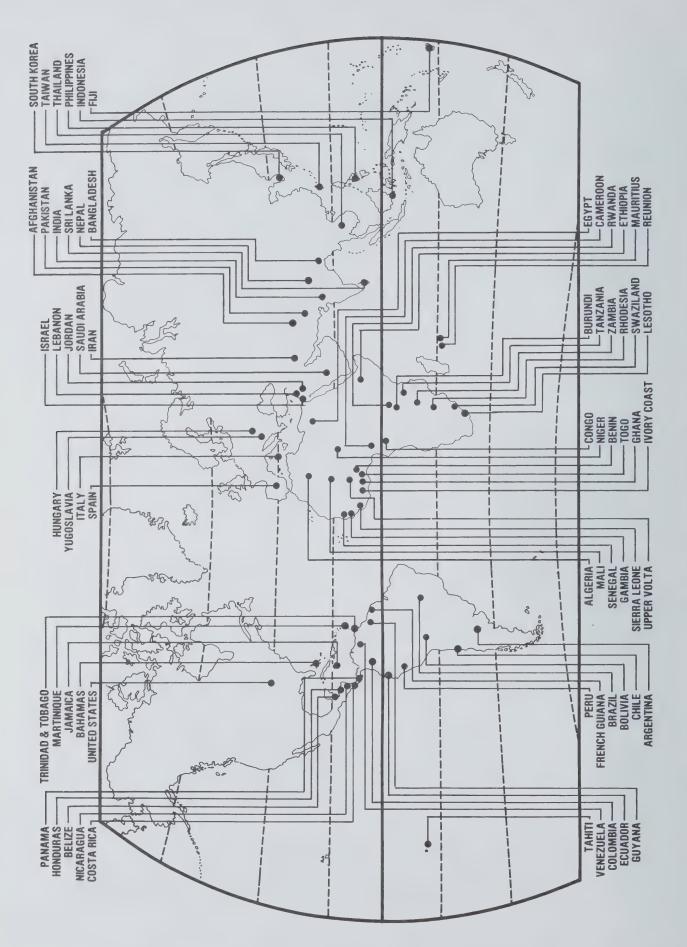


Figure 1. Countries from which data were collected in the third International Soybean Variety Evaluation Experiment.

Seed weight: Weight in grams of 100 randomly selected seeds from the dried, cleaned grain.

Quality of seed: Estimated rating of seed quality after harvest considering the amount of wrinkling, defective seed coats, off-color seed, and moldy or rotten seed according to a scale of 1 (very good quality) to 5 (very poor quality).

Disease rating: Estimated rating of the severity of the three most serious diseases attacking soybeans in the trial according to a rating scale of 1 (highly resistant) to 5 (leaves covered with disease).

#### Statistical Analysis of Data

Analysis of variance was completed for variables for which data were reported from more than one replication of the trial at each site during the same season. Means, standard error of a cultivar mean, coefficient of variation, and the least significant difference (LSD) of cultivar means at the 5% level are reported for analyzable variables from each experiment site. Correlation coefficients were computed between all traits reported.

Protein and oil contents were determined on the dry weight basis by a near-infrared light reflectance instrument in the Department of Agronomy at the University of Illinois. The analyses were made from one sample of each cultivar composited across replications at each trial site by the cooperator who returned the sample to INTSOY for analysis.

A combined analysis was prepared for all trial locations within an environmental zone where there were five or more trials. In certain cases, a combined analysis was also prepared for an environmental zone within a restricted geographical area where there was a sufficient number of trial sites available.

#### RESULTS AND DISCUSSION

Summary mean values of the parameters measured for single and multiple years are presented in Tables 5 through 52. Individual site values for the third ISVEX are reported in Tables 53 through 195. Tables with data for individual sites include agronomic, seed and other descriptive information to identify location, environment, management and the local cultivars tested. These tables are arranged by region, country, and site. Discussion of each parameter will only include those cultivars not significantly different from the leading cultivar.

Yield

A summary of the yield at sites with tropical environments is presented in Table 5. The highest yields were produced at sites of less than 10° latitude and 500 m (zone I). Davis had a mean yield of 2443 kg/ha for

the 36 sites reporting, with Jupiter and Hardee close behind. At the same latitude, but a higher altitude (501 to 1000 m) in zone II, Jupiter had the highest mean yield (2394 kg/ha) followed by Improved Pelican. At latitudes from 11-20° and less than 500 m (zone IV) Davis (2065 kg/ha) was again the leading cultivar followed by Columbus, Improved Pelican, Jupiter, Williams, and Hampton 266A.

The mean rank of cultivars for high yield across sites in the tropical zones is summarized in Table 6. Davis again ranked first followed by Hardee and Jupiter for the zone I sites. Improved Pelican, Davis, Jupiter and Forrest ranked first, second, third and fourth, respectively, for the sites in zone II. Davis again had the highest mean rank followed by Columbus, Jupiter and Forrest in zone IV.

The highest yield reported from the third ISVEX was from the cultivar Hardee (6054 kg/ha), grown at Thirunelvely, Sri Lanka, a zone I site. Six other cultivars also produced yields greater than 5100 kg/ha in the same trial. Three other zone I sites reported yields greater than 4400 kg/ha for the leading cultivar. The highest yield reported from sites in zone IV was 4902 kg/ha at Papeete, Tahiti. Five other sites in the same zone also reported yields of more than 4100 kg/ha.

Table 11 shows the combined results of cultivars tested during ISVEX-2 and ISVEX-3 for zone I. The highest mean yield for the zone was 2506 kg/ha by Jupiter. Davis, Hardee, Bossier and Improved Pelican also produced mean yields of more than 2300 kg/ha.

A summary of the two year mean values for zone IV indicates Jupiter was the leading cultivar with a yield of 2158 kg/ha (Table 12). The cultivars Davis and Bossier also had mean yields over 2050 kg/ha.

The combined analyses for data from zones I - IV, VII, and X in Tables 41 through 52. Correlations between the various parameters measured are indicated below each analysis table. The combined analysis for the 10 Sri Lanka sites is presented in Table 42. The highest yielding cultivar was Hardee (2938 kg/ha) followed by Davis. Nine African sites from zone I reported data which are summarized in Table 43. Davis had the highest mean cultivar yield (2392 kg/ha) followed by Jupiter, Hardee and Forrest. The mean values for parameters from 12 Asian sites, including those from Sri Lanka, are presented in Table 44. Hardee was the highest yielding cultivar with 2595 kg/ha, followed by Davis. Fifteen South American sites were combined (Table 45) from the same zone and resulted in a higher yield of 2892 kg/ha by the cultivar Jupiter.

The 10 sites from Africa located in zone IV are combined in Table 49. Davis (1749 kg/ha) was the highest yielding cultivar, but there was no significant difference in yield among the 12 cultivars reported. Seven sites from Mesoamerica and South America are combined in Table 50 for the same zone. The highest yield was 2754 kg/ha for Jupiter. The cultivars Davis, Columbus, Forrest, Hardee, Improved Pelican, Hampton 266A and Williams produced yields which were not significantly different from Jupiter.

A summary of the yield results for environmental zones III (0-10° latitude, greater than 1000 m) and VII (21-30° latitude, 0-500 m) are found in Table 7. In zone III, Bossier had the highest mean yield (1520 kg/ha). However, the other eight cultivars reported did not differ significantly from Bossier. When individual site rank was averaged (Table 8) for the zone, Bossier was again ranked first. Zone VII had a high mean yield of 2325 kg/ha from Davis, followed by Bossier, Forrest, Hardee, Hampton 266A, Cobb, Jupiter and Williams (Table 7). The mean rank for zone VII placed Bossier ahead of Davis with the other cultivars following the same order as mean yield.

When two year means were determined for zone VII the yield results show that Bossier had the highest yield (1946 kg/ha, Table 13). Davis, Forrest, and Hardee also had mean yields above 1750 kg/ha. The yield results from environmental zone X (31-40° latitude, 0-500 m) are found in Table 9. The cultivar Williams had the highest mean yield of 2605 kg/ha, followed by Calland, Amsoy 71 and Hark. The mean rank for grain yield among the 8 sites in this environmental zone resulted in Williams again ranking first followed by Calland, Woodworth, Beeson, and Hark (Table 10). The highest individual cultivar yield at a given site within zone X was from Bet-Dagan, Israel with 4173 kg/ha.

The highest mean yield per zone reported during the third ISVEX was from zone X. Williams in zone X also had the highest mean cultivar yield. High yields of more than 2000 kg/ha were reported from zones I, II, IV, VII and X. When comparing yield results across years it would appear that cultivars Jupiter, Davis, Hardee, Bossier and Improved Pelican are the most consistent yielding varieties in environmental zone I. However, in zone IV, the cultivars Jupiter, Davis, Bossier, Forrest and Williams appear to give the most consistent yields. In zone VII, the cultivars Bossier, Davis, Forrest and Hardee appear to be the most consistent. When combined across years, it is evident that the highest yields are produced near the equator at low latitudes and low elevation. An insufficient number of sites were tested during the second ISVEX to permit combined analysis across years for zone X.

Days to Flower

The number of days from emergence to first flowering of cultivars tested in the third ISVEX are shown in Table 14. The mean number of days from emergence to flowering in zone I was 33, with a range from 29 days to 39 days. The cultivars Williams and Tracy were the first to flower and Jupiter was the latest to flower. When this characteristic was combined across two years (Table 11), the results are similar with Williams and Tracy flowering first and Jupiter the latest to flower. The two year mean number of days from emergence to flowering was only 1 day less than for the third ISVEX.

The mean number of days to flower in zone II was 39. The cultivars Columbus, Tracy, Hampton 266A, Williams and Bossier all had a mean number of days to flower of 36 being the earliest in that zone, followed by

Forrest. The latest flowering cultivars flowered on an average of 6 days later at 42 days after emergence. Those cultivars were Jupiter, Hardee, and Improved Pelican, followed by Davis.

For environmental zone IV, the mean number of days from emergence to flowering was 32, with a minimum number of days of 29 and a maximum number of days of 44 (Table 14). The cultivars Clark 63, Columbus, and Williams all flowered in 29 days after emergence, followed by Tracy, Forrest and Bossier. Jupiter required 44 days to flower in this environmental zone. When the days to flower data were combined across two years (Table 12), the results indicate that Williams, Tracy and Clark 63 flowered early and Jupiter required the greatest number of days to flower.

Table 15 summarizes the mean number of days to flower for the cultivars tested in environmental zones III and VII. In zone III Williams flowered in 39 days followed by Columbus, Tracy, Forrest, Hampton 266A and Bossier. Hardee and Improved Pelican required 64 days to flower in the same environment followed by Davis, Bossier, Hampton 266A and Forrest. The mean of all cultivars was 52 days.

From the seven sites reporting results from zone VII the mean number of days to flower was 39 days. The cultivars Williams and Clark 63 flowered in 31 days for the fewest number of days followed by Woodworth, Columbus, Tracy and Forrest. The cultivar Jupiter required the greatest number of days to flower (54) followed by Improved Pelican and Hardee. Table 13 indicates that Clark 63 and Williams were the earliest to flower when two years data were combined and that Jupiter and Improved Pelican were the latest cultivars to flower.

A summary of zone X for the number of days from emergence to first flower is presented in Table 16. Many of the cultivars tested in this environmental zone were not tested at the lower latitude environments. The cultivar Altona was the earliest cultivar to flower in 33 days followed by seven other early maturing cultivars. The latest flowering cultivar was Columbus with 50 days required. Past experience has shown that the "late maturing cultivars" such as Jupiter and Hardee do not mature before frost in the temperate zones; therefore, they were not tested during the third ISVEX in those environments.

Generally speaking, cultivars require more days to flower as the latitude of the testing site increases within the same elevation range. For example, the cultivar Williams flowered in 29 days in zone I and IV but required 31 and 44 days to flower in zones VII and X, respectively. When elevation is changed along with latitude, then the cultivar's response varies. In general, a change in elevation of 500 m has a greater effect on the number of days to flower than does a change of 10° latitude.

Days to Maturity

The mean number of days from emergence to maturity for zones I, II, and IV are presented in Table 17. The mean number of days to maturity for

zone I was 95 with a minimum of 87 for the cultivar Tracy followed by Williams, and a maximum of 107 for the cultivar Jupiter. The mean number of days to maturity for two years (Table 11) indicates similar results to those for ISVEX-3 with Tracy requiring the fewest number of days and Jupiter requiring the greatest number of days.

When the number of days to flower are subtracted from the number of days to maturity (not shown in table form) for zone I, the later maturing cultivars usually require more days from flowering to maturity than do the earlier maturing cultivars. For example, Tracy required 58 days from flowering to maturity and Jupiter required 68 days for the same development during the third ISVEX. The same trend is true when the results are combined across years.

Zone II results indicate that Tracy was again the earliest maturing cultivar followed by Williams, Hampton 266A, Bossier, Columbus and Forrest. Jupiter was the latest maturing cultivar followed by Hardee. The mean number of days for all cultivars tested was 98, which was 3 days later than for zone I.

Tracy and Williams were the earliest maturing cultivars in zone IV with 87 days required from emergence to maturity. Jupiter was again the latest maturing cultivar requiring 110 days for the same period. The cultivars Clark 63 and Columbus also were early maturing in this environment. Considering the mean number of days for all cultivars tested, the same number of days were required in zone IV as zone I. However, two of the later maturing cultivars (Jupiter and Hardee) were not included in this analysis and three earlier cultivars were included. For most cultivars, more days were required before maturity in zone IV than in zone I. When combined across two years (Table 12), cultivars Williams, Tracy, and Clark 63 all matured in the fewest number of days. Jupiter required considerably more days to mature than any of the other cultivars compared.

The results for days to harvest of zones III and VII are found in Table 18. The mean number of days for all cultivars tested in zone III was 123. Williams required only 116 days for the earliest maturing cultivar; however, several of the other cultivars were not significantly different than Williams. The latest maturing cultivars were Hardee and Improved Pelican at 133 days but Forrest, Bossier and Columbus were not significantly different.

The seven sites in zone VII had a mean number of days to maturity of 104. Woodworth required the fewest number of days to maturity, followed by Williams, Clark 63, Columbus, Tracy and Forrest. The latest maturing cultivar was Jupiter with 127 days, followed by Improved Pelican and Hardee. Table 13 indicates that when two years data were combined, Williams was the earliest maturing cultivar, followed by Clark 63. Woodworth was not tested during ISVEX-2. The latest maturing cultivar was again Jupiter when two years were combined.

The number of days from emergence to maturity for cultivars in zone X is shown in Table 19. Altona was the earliest maturing cultivar with 88 days. The latest maturing cultivar tested in this environment was Columbus with 128 days, followed by Calland with 122 days required before maturity.

The number of days from emergence to maturity normally increases as latitude and elevation increase for a given cultivar. For example, the cultivar Jupiter required 107 days to maturity in zone I, but required 110 days and 127 days in zones IV and VII, respectively. Elevation and latitude interact and increase the number of days from emergence to maturity. From zone I to zone II, which are different by 500 meters in elevation, an additional five days were required before maturity of the cultivar Jupiter when the latitude remained the same. The cooler temperatures associated with the higher elevation tend to reduce the development rate and require the plants to remain in the field for a longer period of time before they mature.

#### Nodule Number and Dry Weight

Nodule measurements were made to determine the effectiveness of the Rhizobium japonicum which was provided to the cooperators to be used on each test. If effective, the bacteria will cause nodules to form in association with the roots of the soybeans. Within those nodules, nitrogen will be fixed from the air and made available to the plants for utilization. Nodule numbers were counted when the first flowers appeared and a second count was made three weeks after flowering. Nodule dry weight was made by drying and weighing the nodules counted in the nodule number procedure. The values given in Table 41 and thereafter for nodule number and nodule weight are the totals for 10 plants which were sampled per plot and the weight is reported in grams.

Tables 41 through 195 include nodule number 1, nodule number 2, nodule weight 1 and nodule weight 2 data when combined and for individual sites. In Table 41 the data for zone I are presented. Nodule numbers increased from number 1 to number 2 which was expected because the time for development of nodules has been extended by 3 weeks. Nodule weight was increased accordingly. There was no significant difference among varieties for nodule number or nodule weight at the first measurement; however, there were differences in nodule number sampling 2 and nodule weight sampling 2. It is of interest to note that the lowest yielding cultivar (Tracy) also had the fewest number of nodules and the lowest nodule dry weight. Zone III (Table 47) showed a similar trend as zone I with an increase in nodule number and nodule weight at the second measurement; however, only nodule weight number 1 showed any significance among cultivars in that environment. Zone IV, presented in Table 48, followed the same trends with an increased number of nodules and dry weight 3 weeks after flowering. In this environment the date 1 sampling was significant and the date 2 sampling was not significant. Considerable variation was observed from environment to environment and site to site, concerning the number of nodules, their dry weight and their relationship to yield.

#### Plant Height

Plant height measurements were made for each cultivar at each location during ISVEX-3. The mean plant height of all the cultivars at the 36 locations in zone I was 41 cm (Table 20). The shortest cultivar at the zone I sites was Hampton 266A followed by Tracy, Davis, and Forrest. The tallest cultivars in this environment were Jupiter (65 cm) and Improved Pelican (64 cm). The two year average for zone I was 43 cm and the cultivar Hampton 266A was the shortest cultivar, followed by Tracy (Table 11). The tallest cultivars were Jupiter and Improved Pelican at 67 cm.

In zone II the plants were shorter than in zone I, with a mean plant height of 31 cm. Table 20 shows that Hampton 266A was again the shortest cultivar, followed by Tracy, Bossier, Hardee, Davis, Forrest and Williams. The tallest cultivar in this environment was Jupiter, followed by Improved Pelican. The range in plant height was similar to zone I; however, the plants were not as tall with the shortest cultivar averaging 20 cm and the tallest cultivar averaging 57 cm.

Table 20 also shows the results in plant height for zone IV which has an average plant height of 40 cm. The shortest plants were produced by the cultivar Tracy (31 cm), followed by Bossier, Hampton 266A, and Cobb. The tallest cultivar was Jupiter at 68 cm for this environment. In Table 12, the two year average in plant height for zone IV was 42 cm and the shortest plant height reported for cultivars tested in both years was Tracy with 32 cm and the tallest cultivar was Jupiter at 69 cm.

The mean plant height for zone III (Table 21) was 41 cm with a maximum plant height of 65 cm by the cultivar Improved Pelican. The shortest cultivar was Tracy (27 cm) followed by Hampton 266A, Williams, Columbus and Davis.

Zone VII had a mean plant height of 51 cm which was taller than the previous zones mentioned (Table 21). The tallest cultivar was Improved Pelican at 88 cm followed by Jupiter. The shortest plants were produced by the cultivar Tracy followed by Forrest, Davis, Cobb, Woodworth, Hampton 266A, Bossier, Williams and Clark 63. For two years the mean plant height was 60 cm for all cultivars tested over both years (Table 13). Improved Pelican was again the tallest cultivar at 92 cm and the shortest cultivars were Tracy, Hampton 266A and Forrest.

The mean plant height for zone X was 77 cm as shown in Table 22. The tallest cultivar in this environment was Columbus at 95 cm followed by Calland. The shortest cultivar was Altona (59 cm) followed by Hodgson.

In the tropical and subtropical environments the determinate cultivars usually develop into the shortest plants with the exception of Jupiter, which is consistently a tall plant, even though it does have determinate growth habit. Improved Pelican is the only maturity group VIII cultivar tested that has the indeterminate growth habit. The early maturing cultivars are usually the shortest, and the latest maturing cultivars are usually the tallest.

#### Lodging

Lodging is usually closely associated with plant height. Tables 23, 24, and 25 give the mean lodging scores (1 = no lodging, 5 = complete lodging) for cultivars tested in each environment. The scores are consistently low and in many environments were not significantly different. The highest lodging scores were consistently associated with those taller varieties in a given environment. Lodging during the third ISVEX did not appear to be a serious problem. However, where lodging does occur, it is expected that yield would also suffer due to a reduction in seed quality of those seeds that were already produced before lodging or a reduction in the number of seeds produced due to competition for light after plants are lodged.

#### Shattering

Seed lost from the pod prior to harvest can result in serious yield reductions; therefore, the experiments were evaluated to score the amount of shattering which occurs, and differences among cultivars in given environments. Tables 26, 27, and 28 show the shattering scores (1 = no shattering, 5 = over 50% shattered) for cultivars tested in each of the environments. No significant difference was found among cultivars tested in any of the environmental zones, except zone X, and in that environment, there was essentially no shattering except in one cultivar. These results indicate that shattering was not a serious problem and should not have had an effect on the yield potential of any of the cultivars tested.

#### Plants Harvested

Soybean plants have the ability to compensate for differences in plant spacing and plant population. They tend to fill in gaps in the row which are not occupied by adjacent plants. In these experiments the desired plant population was an equivalent of 333,333 plants/ha. An equal amount of seed of a given cultivar was provided to each testing site; however, there were differences in the number of seeds provided for each cultivar, depending on the germination percentage prior to packaging the seed. The prescribed amount of seed was prepackaged for individual rows and the cooperators were asked to plant the entire package of seed evenly in the given plot row. Plots were overseeded to compensate for the considerable variation in seed germination and environmental conditions which the seeds experienced prior to the time of planting. Thinning of plots was recommended. The values given in the tables beginning with Table 41 are the percentages of plants harvested, when 100% was 333,333 plants/ha. Much better stand establishment was achieved during the third ISVEX than during previous experiments of this type. Population values range from slightly below 100% stand establishment to over 200% stand establishment.

Table 41 presents zone I values for each cultivar. Davis was the highest yielding cultivar in zone I and also had the highest number of plants harvested, followed by Improved Pelican and Forrest; however, yield was not closely correlated with the number of plants harvested for each

cultivar. Overall, more plants were established in zone I than any of the other zones reported. The lowest number of plants harvested was also not associated with the lowest yielding cultivar in that environment.

Table 46 for zone II indicates that fewest plants were established with only 2% above the desired population. Again the number of plants harvested was not necessarily correlated with yield. Zones III (Table 47) and VII (Table 51) had no significant difference among cultivars for the number of plants harvested and both had stand establishments about 60% above the expected population. Zone IV is the only environment reporting a similar trend between the number of plants harvested and yield (Table 48). In zone IV Davis produced the highest yield and also had the greatest number of plants harvested. Clark 63 produced the lowest yield and had the fewest number of plants harvested.

Each year of experience by both the coordinator and the cooperators has indicated that better care and management of the seed before, during and after shipment has improved the stand establishment of the cultivars being tested. A better understanding of how the soybean seed reacts to different environments leads those involved to take better care of the seed prior to planting. A result of this improved management has been an overpopulation in most cases. Individual location studies are encouraged to determine the optimum plant population in each given environment. Such studies are extremely difficult to organize on an international scale but should be organized on an individual environment basis.

#### Pods per Plant

The number of pods produced per plant is a parameter usually very closely associated with yield. In Tables 41, 46, 47, 48, 51, and 52 the combined analysis of sites within an environmental zone indicates that the number of pods per plant and yield are highly correlated in each environment. The highest yielding cultivar in each environment is not necessarily the cultivar which produces the highest number of pods per plant, but the correlation is there when all the cultivars are averaged together. Tables 11, 12, and 13 give the two year combined results for the number of pods per plant for the cultivars tested in both years. In zone I (Table 11) Jupiter produced the greatest number of pods per plant and was also the highest yielding cultivar; however, the second highest yielding cultivar did not have the second greatest number of pods per plant. In zone I Tracy was the lowest yielding cultivar and also had the fewest number of pods per plant. In zone IV (Table 12) Jupiter produced the greatest number of pods per plant and the highest yield. The fewest numbers of pods per plant were produced by Williams and Tracy, although Tracy had considerably lower yield. Table 13 gives results for zone VII. In zone VII the highest yielding cultivar did not produce the most pods per plant. Those cultivars producing the average yields had the greatest number of pods. When considering the mean number of pods per plant across all cultivars tested in each environment the number of pods increased as latitude increased away from the equator. A mean of only 27 pods per plant was produced in zone I and a mean number of 42 pods per plant was produced in zone VII.

Seed Weight

Seed weight is another parameter that is usually correlated with grain yield. Tables 29, 30, and 31 give the mean cultivar seed weights in grams per 100 seeds for each of the environments reported during ISVEX-3. Zone I had a mean seed weight of 18.9 g/100 seeds with the smallest seed being produced by the cultivar Improved Pelican at 15.8 g (Table 29). The largest seeds were produced by the cultivar Hampton 266A (21.2 g). In zone II, there were no significant differences among the cultivars but the overall mean for all cultivars was 21.1 g/100 seeds. In zone IV the mean seed weight was 17.4 g/100 seeds. The smallest seeds were produced by the cultivar Forrest (15.0 g) and the largest seeds were produced by the cultivar Hampton 266A (19.2 g), followed by Williams.

Zone III indicates no significant differences among cultivars tested, and had a mean seed weight of 16.5 g/100 seeds. In zone VII the seed weight was less than other zones reported with a mean of 14.1 g. The smallest seeded cultivar was Improved Pelican at 11.7 g, followed by Forrest, Bossier, Hardee and Tracy. Williams had the largest seeds for this environment but six cultivars produced seed weights not significantly less than Williams.

The mean seed weight for zone X was 16.0~g/100~seeds (Table 31). The smallest seeded cultivar was Swift at 14.4~g but five cultivars were not significantly larger than Swift. The largest seeded cultivar was Beeson at 17.6~g/100~seeds, followed by Williams, Amsoy 71, Calland, and Hark in zone X.

Tables 11, 12, and 13 show the mean of two years for seed weight. In zone I Hampton 266A had the largest seed (21.2 g) and Improved Pelican had the smallest seed (15.4 g). The mean seed weight was 18.7 g. In zone IV the mean for all cultivars was 17.5 g, slightly less than in zone I. The same variety (Hampton 266A) had the largest seed (19.2 g) and the cultivar Forrest produced the smallest seed (15.2 g). In zone VII seed size was smaller than the other two zones reported with a mean of 13.1 g/100 seeds. The smallest seeds were produced by the cultivar Improved Pelican (10.9 g) and the largest seeds were produced by the cultivar Williams (14.4 g).

In tropical and subtropical environments the mean seed weight for all cultivars in a given location tended to decrease with increased latitude from  $0\text{--}30^\circ$  among the sites at low elevations. Higher elevations produced inconsistent results.

Seed Quality

Quality ratings of the seed were made by the cooperators after harvest to evaluate the condition of the seed before storage or use. The scoring system for seed quality was 1 for the best quality and 5 for the poorest quality.

Tables 32, 33, and 34 present the results from zones for the seed quality rating. Zones II, III, and VII showed no significant difference among the cultivars tested. The mean score for each of those environments was between fair and good quality seed by visual rating. In zone I (Table 32) the quality of the seed was better than at the other zones. The highest quality seed was from Improved Pelican which had the smallest seed. Bossier followed closely behind Improved Pelican in quality. Several cultivars ranked very close to lowest quality but none were extremely poor. The quality of seed harvested in zone IV was not as good as in zone I or II. The poorest quality seed was produced by Hampton 266A with a rating of fair. Following closely behind Hampton 266A were six other cultivars which were not significantly different in quality rating. Williams had the highest quality seed with a rating of 2.3 (good) but Davis, Columbus, and Clark 63 were not significantly different in quality. The mean seed quality for zone X (Table 34) was the lowest rating among those reported. The range in seed quality scores was from 2.5 (good) to 3.3 (fair).

#### Protein and Oil

To monitor the effect of environment and management on the amount of oil and protein in soybean seed, cooperators returned seed samples of each cultivar for analysis for protein and oil content. The seed samples analyzed were a composite of the replications for each cultivar.

Tables 35 - 40 present the mean protein and oil percentages for each of the cultivars tested in the representative environments. For zone I, 20 sites returned samples for protein and oil analysis which had a mean protein content of 43.3% and oil content of 23.1%. Improved Pelican had the highest protein content of 44.4% and Hampton 266A had the lowest of 41.8%. As is often true when protein content is low, the oil content tends to be high for a given cultivar. In this environment Hampton 266A had the highest oil content (24.7%); however, the lowest (21.4%) was from Tracy, even though it did not have the highest protein content. Zone II had 3 sites reporting with a mean protein content of 41.8% and oil content of 21.5%. In zone II the highest protein cultivar (Tracy) was also one of the lowest oil content cultivars at 20.7%. In zone IV, the mean protein content was 42% and oil was 23.4%. Bossier had the highest protein (44.8%) and Tracy produced the lowest oil content (21.6%).

Results from different groups of cultivars grown in zone III are presented in Tables 36 (late) and 37 (early). The earlier maturing group had protein and oil mean values of 45.0% and 16.6% respectively; the later maturing group yielded 44.0% and 17.7%. Bonus had the highest protein (48.9%) and Amsoy 71 had the highest oil (17.8%) in the early group; Columbus, the highest protein (45.6%) and Forrest the highest oil (19.0%) in the late group.

In zone VII (Table 38), the highest protein content was obtained with Williams (43.9%) and oil content with Hampton 266A (24.6%). Means for all cultivars were 41.9% and 22.6%, respectively.

At elevations less than 500 m protein content tended to decrease as latitude increased from the equator to 40°. The highest mean protein content was found in zone I. This environment also had a high mean oil content of 23.1%. Protein content was associated with elevation as the highest protein content reported was 44% from zone III. Zone III also reported the lowest oil contents. In general, soybean cultivars tended to produce a higher oil content in environments closer to the equator and at low elevations where the temperatures were more consistently warm throughout the maturation period of soybean development.

#### SUMMARY

The third ISVEX has confirmed the results of previous tests which indicate that United States soybean cultivars can be grown satisfactorily and produce adequate yields in tropical environments. This report indicates that numerous organizations throughout the world are interested in the potential of soybeans for production in their countries. The yield response does not show a consistent trend from one type of environment to another. However, the top yields were produced in the temperate environments followed closely by those at low latitude and low elevation sites in the tropics. Individual site management appears to be critical in the success of soybean production in the various areas throughout the world. The number of days from emergence to flowering and to maturity increased with an increase in latitude and elevation. Plant height increased with an increase in latitude but elevation did not have a consistent effect on plant height. Neither lodging nor shattering appears to be a serious problem in the experiments reported here. Seed weight measurements indicate that the largest seeds were produced near the equator in tropical environments, but consistent trends among other environments were not found. Seed weight was related to yield in most cases with low yielding sites producing relatively high seed weights and high yielding sites producing lower seed weights. The seed quality measurements were somewhat surprising with the indication that the best quality seed was produced in tropical environments. This was not expected because of the high temperature and humidity which are usually associated with those environments. Very little difference was found among cultivars in their seed quality rating among individual environments. Stand establishment was much better during ISVEX-3 than in previous years. The best stands were established in the tropical environments. Oil content appears to be highest in tropical environments, probably associated with the warm temperatures during maturation. Protein content was highest at low latitudes but elevation had an inconsistent effect on the protein content.

This report indicates that good soybean yields can be produced in a number of different environments throughout the world, as many locations have reported yields in excess of 4000 kg/ha. It is encouraging to note that shattering and lodging do not appear to be serious problems. However, seed quality is frequently poor under tropical conditions. Plant height at low altitudes is still a problem due to the photosensitivity of the

soybean. However, selection of cultivars which have acceptable plant height is recommended for those environments. The photosensitive character of the soybean plant also has an effect on the number of days from emergence to maturity. Under short day length the soybean tends to flower early which usually results in a shorter plant height, especially in those cultivars which have the determinate growth type. There are a few cultivars which are the exception and have acceptable height, and these cultivars are recommended for production in short day length environments.

Table 1: Soybean	Soybean cultivars er	evaluated in the third Intermational Soybean Variety Evaluation	ion Experiment
Cultivar	Maturity Group	Pedigree	Kind of trial Early Late
Altona Amsoy 71 Beeson Bonus	00 11 11 1V	Flambeau x 052-903 Amsoy Super <sup>8</sup> x C1253 (Blackhawk x Harosoy) C1253 x Kent (Harosoy x Kent) x (Blackhawk x Harosoy)	××××
Bossier Calland Clark 63 Cobb	VII III IV VIII	Selection from Lee (Blackhawk x Harosoy) x Kent (Clark [7] x CNS) x (Clark [6] x Blackhawk) F57-735 x D58-3358	×××× ××
Columbus Corsoy Davis Forrest	IV VI	(Lincoln x Ogden) x Clark Harosoy x Capital (Roanoke x [Ogden x CNS]) x (Ralsoy x Ogden) Dyer x Bragg	× ×× ×× ×
Hampton 266A Hardee Ilark Hodgson	VIII VIII I I	Majos x Lee (Roanoke x [Ogden x CAS]) x Imp. Pelican Hawkeye x Harosoy Corsoy x (M10 x PI 180501)	××
Imp. Pelican Jupiter Pickett 71 Semmes	VIII IX VI VII	Tanloxi x PI 60406 D49-2491 x Bilomi No. 3 Pickett x P.R. Resistant Lee (Ralsoy x Ogden) x D49-2491	×× × ×
Swift Tracy Wells Williams	0 VI III IIII	(Lincoln x Richland x Korean) x (Renville x Capital) (Hill x PI 171442) x (FC 31745 x D49-2510) (Harosoy x C1079) x (Blackhawk x Harosoy) Wayne x (Clark x Adams)	× × ×
Woodworth	III	Wayne x (Clark x Adams)	X

Table 2: Description of environmental zones in the third International Soybean Variety Evaluation Experiment

Zone	Latitude	Elevation (m)	Number of sites
Ι	≤ 10°59' <u>1</u> /	≤ 500	38 .
II	≤ 10°59'	501 - 1,000	5
III	≤ 10°59'	$> 1,000^{2/}$	6
IV	11° - 20°59'	≤ 500	24
V	11° - 20°59'	501 - 1,000	1
VI	11° - 20°59'	> 1,000	3
VII	21° - 30°59'	≤ 500	7
VIII	21° - 30°59'	501 - 1,000	0
IX	21° - 30°59'	> 1,000	1
Χ	31° - 40°59'	≤ 500	10
XI	31° - 40°59'	501 - 1,000	4
XII	31° - 40°59'	> 1,000	2
XIII	≥ 41 <sup>0</sup>	> 0	2

 $<sup>1/\</sup>leq$  = less than or equal to

<sup>2/&</sup>gt;= greater than

Table 3: Geographical description of sites where the third International Soybean Variety Evaluation Experiment was conducted and from which useful data were returned to INTSOY

Region	Country	Site	Latitude	Elevation (m)
Africa	Algeria	Khemis-Miliana	36° 15'N	289
	Benin	Parakou	9° 58'N 3° 20'S	358
	Burundi	Bujumbura	3° 20'S	780
	Cameroon	Wum	10° N	1000
	Ethiopia	Debre Zeit	OFFINI	1860
		Dembere Kella	6 45'N	1860
	Gambia	Yundum	13° 20'N	26
	Ghana	Legon	5° 39'N	60
	Ivory Coast	Badikaha	9° 30'N 8° N	300
		Segue1a	8° N	250
		Sirasso	9° 30'N	300
	Lesotho	Mejametalana	29° 21'S	1550
	Mali	Koulikoro	12° 55'N	326
		Sikasso	11° 15'N	
	Niger	Maradi	13° 28'N	351
		Gaya	11° 59'N	172
	Reunion	St. Denis	20° 53'S	800
		St. Denis	20° 53'S	90
	p1 1 ·	St. Pierre	21° 20'S	125
	Rhodesia	Salisbury	17° 48'S	1506
	Rwanda	Karama	2° 17'S	1325
	Senegal 1	Sefa	12° 47'N	41
	Swaziland	Bigbend	26° 52'S 8° N	150
	Sierra Leone	Njala	8° N 6° 42'S	51
	Tanzania	Ilonga	6° 42'S 3° 12'S	506
		Lyamungu		1020
	T-~-	Mbeya	8° 55'S	1700
	Togo	Amoutchou	7° 21'N 6° 26'N	160
		Davie		95
	Ilmon Volta	Kitangbao		340
	Upper Volta	Bobo-Dioulasso Farako-Ba	11° 25'N 11° 06'N	200
		Saria	16° 12'N	300
	Zambia		16° 08'S	1067
	Zanibia	Magoye Mufulira	12° 37'S	1249
		Mululla	12 3/ 3	1449
Asia	India	Jaba1pur	23° 10'N	393
	Indonesia	Bogor	6° 30'S	270
	Korea	Jeju	33° 30'N	188
		Suweon	37° 16'N	37
		(3 trials)		
	Pakistan	Lahore	31° 30'N	229
		Swat	34 <sup>0</sup> 46'N	895
		Tandojam	25 <sup>0</sup> 02'N	19
	Philippines Philippines	La Carlota	10° 24'N	74
		(2 trials)		
		Los Banos	14 <sup>0</sup> 10'N	15

Table 3(cont'd): Geographical description of sites where the third International Soybean Variety Evaluation Experiment was conducted and from which useful data were returned to INTSOY

Region	Country	Site	Latitude	Elevation (m)
Asia	Sri Lanka	Alutharama (2 trials) Angunukolapalessa Gannoruwa (2 trials) Kilinochchi Maha Illuppallama Moneragala Puttalam	7° N 6° 20'N 9° 02'N 8° 05'N 6° 45'N 8° 02'N 9° 06'N	266 10 457 9 138 184 24
	Taiwan Thailand	Thirunelvely (2 trials) Shanhua Farm Suwan Khon Kaen	22° 30'N 15° N 16° N	9 300 185
Europe	Italy Spain Yugoslavia	Sassari, Sardinia Madrid Novi Sad	40° 43'N 40° 30'N 45° 20'N	80 600 80
Mesoamerica	Bahamas Costa Rica Honduras Martinique Nicaragua	San Andros Canas Guanacasta La Lima Le Lamentin Managua Posoltega	24° 57'N 10° 24'N 10° 14'N 15° 24'N 14° 37'N 12° 33'N 12° 33'N	2 9 43 31 10 60 60
	Trinidad and Tobago	Port-of-Spain	11 <sup>0</sup> N	6
Middle East	Iran Israel Lebanon Saudi Arabia	Karaj Rezaiyeh Bet-Dagan Beqa'a Al-Hassa Wadi Jizan	35° 48'N 37° N 32° N 33° 55'N 25° 20'N 17° 55'N	1300 1300 80 995 145 83
North America	United States	Urbana, Illinois	40° 07'N	226
Oceania	Fiji Tahiti	Legalega Seaqaqa Papeete	17 <sup>o</sup> 45'S 16 <sup>o</sup> 37'S 17 <sup>o</sup> 30'S	14 20 2

Table 3 (cont'd): Geographical description of sites where the third International Soybean Variety Evaluation Experiment was conducted and from which useful data were returned to INTSOY

Region	Country	Site	Latitude	Elevation (m)
South America	Argentina Bolivia	Parana Abapo-Izozog Palometillas Santa Cruz (2 trials)	31° 50'S 18° 39'S 17° 20'S 17° 14'S	111 389 260 320
	Brazil Chile Colombia	Manaus La Platina Espinal Tolima Motilonia	3° 08'S 33° 34'S 4° N 10° 02'N	40 625 400 339
	Ecuador	Boliche Pallatanga Pichilingue Portoviejo	2° 21'S 1° 59'S 1° 06'S	17 3 73 30
	French Guiana Guyana	Cabassou Enmore (2 trials)	1° 04'S 4° 54'N 6° N	10 -2
	Peru	Chiclayo El Porvenir (2 trials)	5 <sup>°</sup> 40'S 6 <sup>°</sup> 31'S	517 232
	Venezue1a	Piura Tingo Maria Maracay	4° 51'S 9° 18'S 10° 14'N	80 610 450

Table 4: List of cooperators participating in the third International Soybean Variety Evaluation Experiment

Region

FRICA

Country	Name	Address
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Table 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

	Val vov	y Boarmaroon Buper onemo	
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Table 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

Region	Country	Name	Address
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Table 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

	var revi	y bodowater baper iment	
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		Mr. Mehrabuddin Naikmal Mr. Hafizullah Batash	Kundoze, AFGHANISTAN
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Table 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

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Table 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

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Region	Country	Name	Address
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Table 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

Region	Country	Name	Address
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Table 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

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Region	Country	Name	Address
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able 4 (cont'd): List of cooperators participating in the third International Soybean Variety Evaluation Experiment

egion	Country	Name	Address
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Table 4 (cont'd): List of cooperators participating in the third International Soybear Variety Evaluation Experiment

Region	Country	Name	Address
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		Dr. A.H. Wahab Mr. I. Hassan	Crop Development Office Project Evaluation Unit (Guysuco) GUYANA
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Table 5: Yield of soybean grain in kilograms per hectare of cultivars observed in the third International Soybean Variety Evaluation Experiment (ISVEX) conducted in similar environmental zones (I, II, and IV)

	Mean	grain yield (kg/ha)	
Cultivar	36 sites	5 sites	21 sites
	$0-10^{\circ} 1at^{\frac{1}{2}}$	0-10 <sup>0</sup> 1at	11-20 <sup>0</sup> lat
	0-500 m <sup>2</sup> /	501-1000 m	0-500 m
Davis Jupiter Hardee Imp. Pelican Forrest Bossier Williams Hampton 266A Tracy Columbus Cobb Clark 63	2443 (1) 3/ 2412 (2) 2365 (3) 2191 (4) 2161 (5) 2026 (6) 2018 (7) 2007 (8) 1758 (9) 4/	1839 (3) 2394 (1) 1522 (5) 1991 (2) 1570 (4) 1460 (6) 1348 (9) 1420 (7) 1154 (10) 1359 (8)	2065 (1) 1954 (4)  1956 (3) 1795 (7) 1839 (5) 1821 (6) 1624 (9) 1961 (2) 1715 (8) 1585 (10)
Mean LSD (.05)	2153 200.2	1606 500.3	1831 262.0

<sup>1/</sup> Range of latitude where trials were planted

2/ Range of elevations where trials were planted

Numbers in parentheses indicate the ranking of mean yields

<sup>4/</sup> Cultivar omitted at some sites; therefore mean values could not be calculated

Table 6: Mean of the ranks of soybean grain yields of cultivars observed in the third ISVEX conducted in similar environmental zones

(I, II, and IV)

	M	ean rank of grain yields	
Cultivar	36 sites	5 sites	21 sites
	0-10 <sup>0</sup> 1at	0-10 <sup>0</sup> lat	11-20 <sup>0</sup> 1at
	0-500 m	501-1000 m	0-500 m
Davis	1	2	1 .
Jupiter	3	3	3
Hardee	2	5	-
Imp. Pelican	4	1	-
Forrest	5	4	4
Bossier	7	6	6
Williams	6	8	5
Hampton 266A	. 8	7	8
Tracy	9	10	10
Columbus	-	9	2
Cobb	-	-	7
Clark 63	_	_	9

Table 7: Yield of soybean grain in kilograms per hectare of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean grain yield	(kg/ha)
Cultivar	5 sites	7 sites
	0-10 <sup>0</sup> lat	21-30° lat
	> 1000 m	0-500 m
Bossier Davis Williams Forrest Hardee Imp. Pelican Columbus Tracy Hampton 266A Cobb Jupiter Clark 63 Woodworth	1520 (1) 1509 (2) 1497 (3) 1481 (4) 1375 (5) 1275 (6) 1140 (7) 1098 (8) 1009 (9)	2191 (2) 2325 (1) 1872 (8) 2189 (3) 2170 (4) 1560 (12) 1826 (9) 1742 (10) 2118 (5) 1999 (6) 1945 (7) 1683 (11) 1538 (13)
Mean LSD (.05)	1323 -NS-	1935 473.3

Table 8: Mean of the ranks of soybean grain yields of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean rank	of grain yields
Cultivar	5 sites	7 sites
	0-10 <sup>o</sup> 1at	21-30 <sup>0</sup> lat
	> 1000 m	0-500 m
Bossier	1	1
Davis	2	2
Williams	4	9 3
Forrest	5	3
Hardee	3	4
Imp. Pelican	7	12
Columbus	9	8
Tracy	6	11
Hampton 266A	8	5
Cobb	-	6
Jupiter	-	7
Clark 63	-	10
Woodworth	-	13

Table 9: Yield of soybean grain in kilograms per hectare of cultivars observed in the third ISVEX conducted in zone X

Cultivar	Mean grain yield (kg/ha)  8 sites  31-40 <sup>0</sup> lat
	0-500 m
Williams Calland Amsoy 71 Hark Woodworth Beeson Columbus Corsoy Wells Hodgson Swift Altona	2605 2370 2287 2262 2224 2211 2158 2114 2103 2074 1818
Mean LSD (.05)	2146 374.3

Table 10: Mean of the ranks of soybean grain yields of cultivars observed in the third ISVEX conducted in zone X

	Mean rank of grain yield
Cultivar	8 sites
	31-40 <sup>°</sup> 1at
	0-500 m
Williams	1
Calland	2
Amsoy 71	7
Hark	5
Woodworth	3
Beeson	4
Columbus	6
Corsoy	8
Wells	9
Hodgson	10
Swift	11
Altona	12

Selected agronomic characteristics of soybean cultivars observed in ISVEX trials conducted during 1974 and 1975 in Zone I Table 11:

			Mean	Mean for two years		
Cultivar	Yield (kg/ha)	Days to flower	Days to harvest	Plant height (cm)	Pods per plant	Seed weight (g/100 seeds)
Jupiter Davis Hardee Bossier Imp. Pelican Forrest	2506 2480 2358 2330 2309 2174 2122	38 33 35 35 28	108 96 97 97 96 98	67 78 74 74 74 74	36 37 37 28 38 48 22	19.8 19.2 18.2 15.4 20.3
Hampton 266A Tracy	2067 1756	30	94	31 . 32	24	21.2
Mean	2234	32	95	43	27	18.7

Selected agronomic characteristics of soybean cultivars observed in ISVEX trials conducted during 1974 and 1975 in zone IV Table 12:

	Seed weight (g/100 seeds)	17.4 17.2 17.0 15.2 18.6 19.2 17.2	17.5
	Pods per plant	42 31 31 26 26 26	30
Mean for two years	Plant height (cm)	69 36 42 36 44 45 32	42
Mean fo	Days to harvest	114 100 101 96 88 99 90	97
	Days to flower	32 33 33 33 34 4 32 33 33 33 33 33 33 33 33 33 33 33 33 3	33
	Yield (kg/ha)	2158 2108 2052 1930 1928 1840 1760	1924
	Cultivar	Jupiter Davis Bossier Forrest Williams Hampton 266A Clark 63 Tracy	Mean

Selected agronomic characteristics of soybean cultivars observed in ISVEX trials conducted during 1974 and 1975 in zone VII Table 13:

			Mean fo	Mean for two years		
Cultivar	Yield (kg/ha)	Days to flower	Days to harvest	Plant height (cm)	Pods per plant	Seed weight (g/100 seeds)
Bossier	1946	45	113	65	46	12.6
Davis	1810	44	108	54	40	14.0
Forrest	1780	38	100	48	42	11.8
Hardee	1760	46	115	57	20	12.6
Hampton 266A	1665	43	112	48	40	13.8
Jupiter	1612	54	125	83	56	13.3
Tracy	1553	40	104	48	40	14.1
Williams	1513	30	06	50	29	14.4
Imp. Pelican	1.429	54	118	92	20	10.9
Clark 63	1388	30	93	54	30	13.8
Mean	1646	42	108	09	42	13.1

Table 14: Days from emergence to first flowering of cultivars observed in the third ISVEX conducted in similar environmental zones (I, II, and IV)

		Mean days to flower	
Cultivar	35 sites $\frac{1}{}$	5 sites	19 sites
	0-10 <sup>0</sup> 1at	0-10 <sup>0</sup> 1at	11-20 <sup>0</sup> lat
	0-500 m	501-1000 m	0-500 m
Davis	32	40	33 -
Jupiter	39	42	44
Hardee	34	42	
Imp. Pelican	36	42	
Forrest	31	39	31
Bossier	33	36	31
Williams	29	36	29
Hampton 266A	31	36	32
Tracy	29	36	30
Columbus		36	29
Cobb			32
Clark 63			29
Mean	33	39	32
LSD (.05)	1.3	2.8	2.4

<sup>1/</sup> Number of sites contributing to mean may vary; data for certain characteristics not recorded at some sites

Table 15: Days from emergence to first flowering of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean days to flower	
Cultivar	4 sites	7 sites
	0-10 <sup>0</sup> 1at	21-30 <sup>°</sup> lat
	> 1000 m	0-500 m
Bossier	54	41
Davis	57	45
Williams	39	31
Forrest	51	35
Hardee	64	48
Imp. Pelican	64	49
Columbus	44	32
Tracy	46	35
Hampton 266A	51	39
Cobb		38
Jupiter		54
Clark 63		31
Woodworth		32
Mean	52	39
LSD (.05)	15.0	5.6

Table 16: Days from emergence to first flowering of cultivars observed in the third ISVEX conducted in zone X

	Mean days to flower
Cultivar	8 sites
	31-40 <sup>°</sup> lat
	0-500 m
Williams	44
Calland	40
Amsoy 71	. 37
Hark	35
Woodworth	43
Beeson	37
Columbus	50
Corsoy	37
Wells	36
Hodgson	35
Swift	35
Altona	33
Mean	39
LSD (.05)	3.9

Table 17: Days from emergence to harvest of cultivars observed in the third ISVEX conducted in similar environmental zones (I, II, and IV)

		Mean days to harvest	
Cultivar	36 sites	5 sites	20 sites
	0-10 <sup>0</sup> 1at	0-10 <sup>0</sup> 1at	11-20 <sup>0</sup> lat
	0-500 m	501-1000 m	0-500 m
Davis	96	99	98
Jupiter	107	112	110
Hardee	97	103	No mo
Imp. Pelican	96	101	
Forrest	93	98	95
Bossier	96	96	97
Williams	88	94	87
Hampton 266A	95	94	98
Tracy	87	88	87
Columbus		97	90
Cobb			99
Clark 63		· •• ••	89
Mean	95	98	95
LSD (.05)	2.5	9.8	4.2

Table 18: Days from emergence to harvest of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean days	s to harvest
Cultivar	4 sites	7 sites
	0-10 <sup>0</sup> lat	21-30° 1at
	> 1000 m	0-500 m
Bossier	123	109
Davis	121	103
Williams	116	91
Forrest	123	99
Hardee	133	116
Imp. Pelican	133	118
Columbus	122	96
Tracy	119	96
Hampton 266A	121	109
Cobb		103
Jupiter		127
Clark 63		94
Woodworth		89
Mean	123	104
LSD (.05)	11.1	12.2

Table 19: Days from emergence to harvest of cultivars observed in the third ISVEX conducted in zone X

Cultivar	Mean days to harvest  8 sites  31-40 <sup>0</sup> lat  0-500 m
Williams Calland Amsoy 71 Hark Woodworth Beeson Columbus Corsoy Wells Hodgson Swift Altona	115 122 112 108 112 112 128 110 109 101 98
Mean LSD (.05)	110 7.2

Table 20: Height in centimeters of cultivars observed in the third ISVEX conducted in similar environmental zones (I, II, and IV)

		Mean plant height (cm)	
Cultivar	36 sites	5 sites	21 sites
	0-10 <sup>0</sup> lat	0-10 <sup>0</sup> lat	11-20° 1at
	0-500 m	501-1000 m	0-500 m
Davis	33	28	36
Jupiter	65	57	68
Hardee	35	24	
Imp. Pelican	64	45	
Forrest	34	30	. 37
Bossier	35	23	32
Williams	41	31	43
Hampton 266A	30	20	33
Tracy	31	23	31
Columbus		33	45
Cobb			33
Clark 63			41
Mean	41	31	40
LSD (.05)	3.8	11.8	4.1

Table 21: Height in centimeters of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean plant height (cm)	
Cultivar	4 sites	7 sites
	0-10 <sup>0</sup> lat	21-30 <sup>o</sup> 1at
	> 1000 m	0-500 m
Bossier	43	45
Davis	40	41
Williams	33	46
Forrest	46	39
Hardee	44	55
Imp. Pelican	65	88
Columbus	39	52
Tracy	27	36
Hampton 266A	30	42
Cobb	~ <b>~</b>	41
Jupiter		84
Clark 63	~ ~	47
Woodworth	<del></del>	41
Mean	41	51
LSD (.05)	12.8	12.6

Table 22: Height in centimeters of cultivars observed in the third ISVEX conducted in zone X

Cultivar	Mean plant height (cm)  8 sites  31-40° lat  0-500 m
Williams Calland Amsoy 71 Hark Woodworth Beeson Columbus Corsoy Wells Hodgson Swift Altona	86 94 79 75 79 77 95 74 74 66 68 59
Mean LSD (.05)	77 7.8

Table 23: Amount of lodging of cultivars observed in the third ISVEX conducted in similar environmental zones (I, II, and IV)

	Mean lodging score 1/		
Cultivar	33 sites	4 sites	15 sites
	0-10 <sup>°</sup> 1at	0-10 <sup>o</sup> 1at	11-20 <sup>0</sup> lat
	0-500 m	501-1000 m	0-500 m
Davis	1.1	1.0	1.1
Jupiter	1.8	1.0	1.7
Hardee	1.1	1.0	
Imp. Pelican	1.7	1.3	
Forrest	1.1	1.1	1.1
Bossier	1.3	1.0	1.0
Williams	1.1	1.2	1.3
Hampton 266A	1.1	1.0	1.1
Tracy	1.2	1.0	1.1
Columbus		1.1	1.3
Cobb			1.1
Clark 63			1.4
Mean	1.3	1.1 -NS-2/	1.2
LSD (.05)	0.20	-NS- <u>-</u> /	0.25

<sup>1/</sup> Mean of lodging scores where:

1 = all plants erect

<sup>2 =</sup> all leaning slightly or few plants down 3 = all leaning moderately (45°) or 25-50% down 4 = all leaning considerably or 50-80% down

<sup>5 =</sup> all plants down

<sup>2/</sup> LSD at .05 was not significant

Table 24: Amount of lodging of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean lodging score	
Cultivar	3 sites	5 sites
	0-10 <sup>0</sup> lat	21-30 <sup>o</sup> 1at
	> 1000 m	0-500 m
Bossier	1.0	1.2
Davis	1.0	1.4
Williams	1.0	1.0
Forrest	1.0	1.2
Hardee	1.0	1.6
Imp. Pelican	1.2	1.6
Columbus	1.2	1.1
Tracy	1.0	1.4
Hampton 266A	1.0	1.3
Cobb		1.2
Jupiter		1.9
Clark 63		1.1
Woodworth		1.4
Mean	1.0	1.3
LSD (.05)	-NS-	-NS-

Table 25: Amount of lodging of cultivars observed in the third ISVEX conducted in zone X

Cultivar	Mean lodging score  8 sites  31-40 <sup>0</sup> lat  0-500 m
Williams Calland Amsoy 71 Hark Woodworth Beeson Columbus Corsoy Wells Hodgson Swift Altona	1.7 2.0 1.9 1.8 1.8 2.4 1.8 2.4 1.8 1.5 1.7
Mean LSD (.05)	1.9 -NS-

Table 26: Amount of shattered pods of cultivars observed in the third ISVEX conducted in similar environmental zones (I, II, and IV)

		Mean shattering score 1/	
Cultivar	32 sites	4 sites	15 sites
	0-10 <sup>0</sup> 1at	0-10 <sup>0</sup> lat	11-20 <sup>0</sup> lat
	0-500 m	501-1000 m	0-500 m
Davis	1.1	1.0	1.2
Jupiter	1.1	1.0	1.1
Hardee	1.1	1.0	
Imp. Pelican	1.1	1.0	
Forrest	1.0	1.0	1.0
Bossier	1.1	1.2	1.1
Williams	1.0	1.2	1.1
Hampton 266A	1.1	1.0	1.4
Tracy	1.1	1.6	1.2
Columbus			1.1
Cobb			1.5
Clark 63			1.2
Mean	1.1	1.1	1.2
LSD (.05)	-NS-	-NS-	-NS-

<sup>1/</sup> Mean of shattering score where:

<sup>1 =</sup> no shattering

<sup>2 = 1-10%</sup> shattered

<sup>3 = 10-25%</sup> shattered

<sup>4 = 25-50%</sup> shattered

<sup>5 =</sup> over 50% shattered

Table 27: Amount of shattered pods of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean shattering score	
Cultivar	4 sites	6 sites
	0-10 <sup>0</sup> 1at	21-30 <sup>°</sup> 1at
	> 1000 m	0-500 m
Bossier	1.4	1.0
Davis	1.4	1.2
Williams	1.3	1.3
Forrest	1.2	1.1
Hardee	1.2	1.3
Imp. Pelican	1.5	1.4
Columbus	1.2	1.4
Tracy	1.5	1.5
Hampton 266A Cobb	1.2	1.2
Jupiter		1.2
Clark 63		1.5
Woodworth		1.1
woodwort dr		1.1
Mean	1.3	1.3
LSD (.05)	-NS-	-NS-

Table 28: Amount of shattered pods of cultivars observed in the third ISVEX conducted in zone X

	Mean shattering score
Cultivar	8 sites
	31-40 <sup>°</sup> lat
	0-500 m
Williams	1.0
Calland	1.0
Amsoy 71	1.0
Hark	1.0
Woodworth	1.0
Beeson	1.0
Correct	1.0
Corsoy	1.0
Wells Hodgson	1.0
Swift	1.0
Altona	1.1
Attolia	1.0
Mean	1.0
LSD (.05)	1.0
(100)	0.1

Table 29: Weight of 100 seeds in grams of cultivars observed in the third ISVEX conducted in similar environmental zones (I, II, and IV)

	Mean	seed weight (g/100 seed	s)
Cultivar	35 sites	4 sites	19 sites
	0-10 <sup>0</sup> lat	0-10 <sup>0</sup> lat	11-20 <sup>0</sup> lat
	0-500 m	501-1000 m	0-500 m
Davis	19.3	20.8	17.0
Jupiter	20.1	22.9	16.8
Hardee	18.5	19.5	
Imp. Pelican	15.8	17.6	
Forrest	16.8	19.2	15.0
Bossier	18.6	21.0	17.5
Williams	20.2	22.1	18.4
Hampton 266A	21.2	23.5	19.2
Tracy	19.7	21.5	17.9
Columbus		22.3	17.3
Cobb			17.6
Clark 63			16.9
Mean	18.9	21.1	17.4
LSD (.05)	0.79	-NS-	1.13

Table 30: Weight of 100 seeds in grams of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean seed weight (g/100 seeds)		
Cultivar	5 sites	6 sites	
	0-10 <sup>o</sup> 1at	21-30 <sup>°</sup> 1at	
	> 1000 m	0-500 m	
Bossier	15.8	13.0	
Davis Williams	17.3 19.0	15.1 16.0	
Forrest	16.4	12.7	
Hardee	15.4	13.2 11.7	
Imp. Pelican Columbus	14.2 16.3	14.4	
Tracy	16.5	13.7	
Hampton 266A Cobb	17.6	15.4 13.8	
Jupiter		14.8	
Clark 63 Woodworth		14.9 14.4	
MOOGWOT GI			
Mean LSD (.05)	16.5 -NS-	14.1 2.05	

Table 31: Weight of 100 seeds in grams of cultivars observed in the third ISVEX conducted in zone X

	Mean seed weight (g/100 seeds)	
Cultivar	8 sites	
	31-40° lat	
	0-500 m	
Williams	17.3	
Calland	17.1	
Amsoy 71	17.3	
Hark	16.6	
Woodworth	15.2	
Beeson	17.6	
Columbus	15.2	
Corsoy	15.2	
Wells	15.2	
Hodgson	15.4	
Swift	14.4	
Altona	15.7	
Mean	16.0	
LSD (.05)	1.26	

Table 32: Quality of harvested seed of cultivars observed in the third ISVEX conducted in similar environmental zones (I, II, and IV)

	Mean seed quality score 1/		
Cultivar	28 sites	3 sites	17 sites
	0-10 <sup>0</sup> 1at	0-10 <sup>o</sup> lat	11-20 <sup>0</sup> 1at
	0-500 m	501-1000 m	0-500 m
Davis	2.0	2.1	2.4
Jupiter	2.2	2.8	2.9
Hardee	1.9	2.3	
Imp. Pelican	1.5	1.6	
Forrest	1.9	2.0	2.8
Bossier	1.7	2.1	2.8
Williams	1.9	1.8	2.3
Hampton 266A	2.2	2.6	3.0
Tracy	2.1	2.8	2.8
Columbus		2.4	2.4
Cobb		ner nee ter	2.8
Clark 63			2.6
Mean	1.9	2.2	2.7
LSD (.05)	0.31	-NS-	0.41

Mean of seed quality scores where:

<sup>1 =</sup> very good

<sup>2 =</sup> good 3 = fair

<sup>4 =</sup> poor

<sup>5 =</sup> very poor

Table 33: Quality of harvested seed of cultivars observed in the third ISVEX conducted in similar environmental zones (III and VII)

	Mean seed	quality score
Cultivar	5 sites	6 sites
	0-10 <sup>0</sup> lat	21-30° 1at
	> 1000 m	0-500 m
Bossier	2.6	1.7
Davis	2.8	1.8
Williams	1.9	1.6
Forrest	2.6	2.4
Hardee	2.7	2.0
Imp. Pelican	2.8	2.0
Columbus	3.2	1.8
Tracy	2.2	2.0
Hampton 266A	3.1	2.8
Cobb		2.2
Jupiter		3.3
Clark 63	on the sol	2.0
Woodworth		2.1
Mean	2.6	2.1
LSD (.05)	-NS-	-NS-

Table 34: Quality of harvested seed of cultivars observed in the third ISVEX conducted in zone X

Cultivar	Mean seed quality score  8 sites  31-40 <sup>0</sup> lat  0-500 m
Williams Calland Amsoy 71 Hark Woodworth Beeson Columbus Corsoy Wells Hodgson Swift Altona	2.5 3.1 3.0 2.6 2.8 3.2 2.5 2.8 3.2 2.6 3.3 3.2
Mean LSD (.05)	2.9 0.54

Percent protein and oil in cultivars observed in the third ISVEX conducted in similar environmental sones (I, II, and IV) Table 35:

		lat		0i1	22.6	22.1	21.6	24.2	23.6	23.1	24.0	22.9	24.8	1	22.3		4.	24.2	4.	23.4
	15 sites	11-200 1	0-500 m	Protein	7	00	LO	9	42.1 (5)	7	0	7	40.6 (13)	,	0	7	41.1 (11)	6	40.0 (14)	42.0
content (%)		at	m (	0i1	1	21.4	20.7	22.8	20.7	22.2	21.5	22.2	21.6	20.9	21.1	21.1	!	1	l t	21.5
Mean protein and oil content (%	3 sites	0-100 lat	501-1000 m	Protein	1 1		<u></u>	$\vdash$	41.4 (8)		2		9	6	42.1 (6)		1 1	!	!	41.8
M		٠+		. 0i1	22.3	22.7	21.4	23.5	23.6	22.5	23.4	23.1	24.7	-		1	1	-	1	23.1
	20 sites	0-10 <sup>0</sup> lat	0-500 m	Protein	$44.4  (1)^{1/2}$	7	44.0 (3)	43.6 (4)	43.4 (5)	43.1 (6)			41.8 (9)	0 E	i i	;	;	f j	1	43.3
	Cultivar				Imp. Pelican	Bossier	Tracy	Hardee	Jupiter	Davis	Williams	Forrest	Hampton 266A	Semmes	Calland	Columbus	Clark 63	Cobb	Woodworth	Mean

1/ Ranking of mean protein content within environmental zone

Percent protein and oil in cultivars observed in the third ISVEX conducted in similar environmental zones (III, V, and VI) Table 36:

	2 sites	11-20 <sup>0</sup> lat	>1000 m	Protein 0i1	47.0 (3) 20.7		:	45.4 (6) 22.5	;	(5)		(4)	44.5 (8) 20.8	(7)	(10)	5 (5)	.2 (12)	43.4 (11) 20.7		45.2 20.9
content (%)		lat	0 m	0i1	20.7	17.6	21.1	22.7	18.6	20.6	23.7	19.8	20.0	19.6	20.2	20.5	20.0	1 1		20.4
Mean protein and oil content	1 site	11-20° lat	501-1000 m	Protein		4	) 6	45.9 (5)	$\infty$				44.8 (9)	45.4 (6)						45.2
Mean		lat		Oil	17.9	14.3	16.8	17.2	18.0	18.9	17.6	16.8	18.6	17.2	19.0	1	;	1		17.7
	3 sites	0-100 18	>1000 m	Protein	45.6 (1)	0	2	45.2 (4)	6		44.1 (7)		42.6 (9)				1		1	44.0
	Cultivar				Columbus	Tracy	Clark 63	Williams	Imp. Pelican	Rosier	Woodworth	Hardee	Davis	Hamnton 266A	Forrest		Carrain		Juplier	Mean

Percent protein and oil in cultivars observed in the third ISVEX conducted in zone III Mean protein and oil content (%) Oil 0-10° lat 3 sites >1000 m Protein 48.9 46.7 46.7 46.7 46.2 45.6 45.4 44.6 44.1 Woodworth Cultivar Columbus Clark 63 Williams Hodgson Amsoy 71 Altona Beeson Bonus Wells Swift Hark

Table 37:

Forrest

Mean

16.6

45.0

Percent protein and oil in cultivars observed in the third ISVEX conducted in similar environmental zones (VII, VIII, and IX) Table 38:

	in the second se	Mean	Mean protein and oil c	content (%)		
Cultivar	6 sites		1 site		2 sites	
	21-300	lat	21-30° lat	at	21-300 1	lat
	m 00-200 m		501-1000 m	m (	>1000 m	
	Protein	Oil	Protein	0i1	Protein	0i1
Williams	43.9 (1)	22.3	44.9 (4)	20.3	1 1	i i
Columbus	43.7 (2)	22.1		20.3	46.5 (2)	16.7
Imp. Pelican	43.6 (3)	22.0		19.2		1 1
Tracy	42.9 (4)	21.6	44.0 (9)	18.7	43.6 (10)	16.5
Davis	42.5 (5)	21.6		21.1		1 1
Bossier	42.0 (6)	22.9	45.5 (3)	20.0	46.3 (3)	16.5
Woodworth	42.0 (7)	23.5		20.3		1 1
Hardee	41.9 (8)	22.1		20.0	3 (	15.3
Clark 63	41.9 (9)	23.1		19.8	45.3 (6)	18.4
Cobb	40.5 (10)	23.2		20.1	0	19.0
Forrest	40.1 (11)	22.9		21.9		7./1
Hampton 266A		24.6		20.4	2	10.4
Inniter	ı,	ı t		17.4	1 1	1
Semmes	1 1	1		20.0	46.6 (1)	16.2
Davis	}	ŧ I	į į	1	45.3 (5)	15.8
Mean	41.9	22.6	44.2	20.1	45.1	17.0

Percent protein and oil in cultivars observed in the third ISVEX conducted in similar environmental zones  $(X_{m{s}},XI_{m{s}})$  and XII)Table 39:

	3	lat	u	0i1	20.9	19.4	20.4	21.5	20.3	) • 1 • 1	20.6	18.0	20.2	20.8	20.7	21.5	20.9	22.2	20.9	20.7
	2 sites	31-40° lat	>1000 m	Protein	41.3 (2)	40.3 (6)	39.8 (8)	\ <del>\ \</del>			40.3 (5)	42.1 (1)		38.4 (11)	0	40.1 (7)	38.1 (12)	37.8 (14)	37.9 (13)	39.7
content (%)		lat	m C	Oil	19.5	!	19.2	19,9	20.0	i i	20.3	19,4	19.2	18.9	19.8		20.3	22.1	5.	20.0
Mean protein and oil content (%)	1 site	31-400	501-1000 m	Protein	43.1 (1)	1 1	39.7 (7)		38.8 (9)		38.1 (10)	,		39.3 (8)			37.9 (11)	35.0 (13)	40.8 (4)	39.4
Mean		lat		0i1	21.2	20.8	22.2	22.7	22.2	20.8	22.5	22.4	22.5	23.0	21.5	23.8	23.8	23.3	1 1	22.3
	3 sites	31-400	0-500 m	Protein	44.3 (1)									40.8 (10)					1	41.2
	Cultivar				Bonus	Columbus	Williams	Hark	Corsoy		× Wells	Altona	Beeson	Woodworth	Calland	Hodgson	Amsoy /1	Switt	Clark 63	Mean

Table 40: Percent protein and oil in cultivars observed in the third ISVEX conducted in some XIII

Mean protein and oil content (%)	sites 41 <sup>0</sup> lat	u	0i1	19.7 19.7 19.4 19.8 19.8 20.5 20.3 22.0 21.0	20.1
Mean protein ar	2 sites > 41 <sup>0</sup> 1	m 0 <	Protein	43.7 42.7 42.7 42.4 41.9 41.5 41.3 39.7	41.7
	Cultivar			Hark Corsoy Wells Altona Williams Amsoy 71 Clark 63 Beeson Woodworth Hodgson Swift	Mean

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VARIETY OR CROSS		YIELD KG/dA	DAYS TO FLOWER	DAYS TO MATURITY	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LODGING
DAVIS		2442.93	32,34	9.			2.	2.56	1	1,13
HANDER HANDER		2411.61	18°80	o r	- [		٦	2.16	_	1.76
IMPROVED PELICAN		2190.97	36.04	96.01	122, 76	266.39	90.0	2.50	34.72	1.09
PORKEST		2161.20	31.19	2	. 7			2.27	? 0	1.09
BOSSIER		2025.90	33,31	5.	3		-	2.30	6	1.27
WILLIAMS		2018.37	28.80	œ ·	8		.7	2.09	00	1.14
HAMPTON 266A			37.14	- - -	7		.7	2.11	9 .	1.09
TRACI		1757.92	29.45	·	m	0	. 7	1.95	7.	1.17
	ND MEAN	2153,38	32.74	94.97	130.19	252.78	0.76	2 23	3	
	CONTRIBUTING		35	36	29		~	10	•	1.2.1
STANDARD ERROR OF VARIET	VARIETY MEAN	3	20.47	0.89	7.09	13.95	0	1 -	٦ ٣	0
COEFFICIENT OF VARIATION	RIATION	40.08%	16.84%	11.18%	58.65%	60.45%	70.01%	53.94%	40.23%	64.12%
	(SNIII)	200.22	1.30	2.46	***	38.87	*	~	00	0
CORRELATIONS	S AND NUMBER	SER OF OBSER	VATIONS	(+ - PRO)	3=.05, ++	- PROB=.01)				
YIELD	KG/HA	0	00.00	0.37++	-0.01	++60 0	00.00	0.01	0 3344	0 1344
		1296	1260	1296	1044	1080	828	- ac	1006	1100
DAYS TO FI	FLOWER	0.00	1.00	0.44++	-0.01	-0.03	0.14++	0.20*	0.28++	0.23++
E		1260	1260	1260	1044	1040	828	878	1260	1152
DAIS TO MAT	MATURITY	-	++##0	1.00	0.03	0.13++	0.11++	0.07+	0.35++	0.26++
D III CON	4		1260	1296	1044	1090	828	828	1296	1188
4	4	10.01	0.01	70.03	1.00	0.66++	0.67++	0.58++	-0.05	+0.07+
NODULE NUMBER	BER 2		E 0 - 0 -	0.13++	1044	* 6	878	767	1044	936
			1080	1080	1044	1080	# # C & C & C & C & C & C & C & C & C &	++00°0	5000	+/0.0-
NODULE WEIG	WEIGHT 1	-0.00	0.14++	0.11++	0.67++	0.33++	1.00	0.70++	00.0	2/6
			828	328	828	828		792	828	756
RESTAM STORON	GHT 2	0.01 8.28	0.20++	0.07+	0.58++	0.65++	0.70++	1.00	-0.02	-0.14++
PLANT	HEIGHT	0.33++	0.28++	0.20	26/	878		878	828	756
			1260	1296	1044	1080		70.01	2000	4487
TOI	LODGING	0.13++	0.23++	J. 26++	-0.07+	-0-04		-0-14++	0.44	100
		00	1152	1183	936	972		756	1188	1188
SIIS	SHATTER		0.38++	0.23+4	0.09++	-0.00		-0.01	-0.08+	0.08++
THE TO	200000000000000000000000000000000000000	2	3 1 1 6	1152	006	936		720	1152	1116
2	I A E S I	1260	10016++	++00.01	0.03	40.0-	•	-0.12++	-0.05	+0.07+
PODS PER F	PLANT	0.47++	0.28++	0-38++	† C C	1044		192	1260	1152
		1260	1260	1260	1044	1080		+ oc oc	1260	1152
100 SEED WE	EIGHT	0.46++	-0.14++	0.29++	-0.05	0.05		0.00	20.0	0 1744
1		1260	1260	26	1044	1080	828	828	1260	1152
QUALITY OF	SEED	-0.16++	-0.04	-0.04	-0.15++	-0.16++	90.0	-0.06	++60-0-	-0.04
	i	8001	972	00	828	864	612	612	1008	936
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QUALITY OF SEED	22.25 2	1.92 28 0.11 62.02% 0.31 PROB=.01)	
100 SEED WEIGHT	19.28 20.13 18.49 15.81 16.81 18.55 20.18 21.25	18.91 13.35 17.84% 0.79 PROB=.05, ++ -	0.46++ 1260 -0.14+ 1260 -0.29++ 1260 -0.05 -0.05 -0.05 -0.03 -0.03 -0.03 -0.13++ 1224 -0.13++ 1260 -0.13++ 1260 -0.13++
PODS PER 1	22.86 33.11 28.41 24.58 23.47 20.63 23.56 18.59	25.03 0.94 44.21% 2.60 (+ - PROB	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PLANTS P	210.02 188.17 184.21 205.73 201.87 190.69 188.19	194.88 3.93 23.88% 10.95	0.064 1260 1224 1224 1260 0.03 1044 -0.03 1044 -0.104 -0.104 -0.124 1260 -0.05 1260 -0.05 1260 -0.05 1260 -0.05 1260 -0.05 1260 -0.04 1260 -0.04 1260 -0.04 1260 -0.04 1260 -0.05 1260 -0.04 1260 -0.05 1260 -0.07 1260 1260 -0.07 1260 -0.07 1260 -0.07 1260 -0.07 1260 -0.07 1260 -0.07 1260 -0.07 1260 -0.07 1260 -0.07 1260 1260 1260 1260 1260 1260 1260 1260
SHATTER	100100000000000000000000000000000000000	1.09 194.88 32 35 0.03 3.93 34.09% 23.88 ***********************************	
1	z	GRAND MEAN MENTS CONTRIBUTING OR OF VARIETY MEAN Y MEANS (****=NS) ***	KG/HA  FLOWER  NUMBER 1  NUMBER 2  WEIGHT 2  WEIGHT 2  HEIGHT 2  HEIGHT 4  WEIGHT 4  WEIGHT 7  VARIGHT 6  PLANT  WEIGHT 7
VARIETY OR CROSS ,	DAVIS JUPITER HARDEE IMPROVED PELICAN PORREST BOSSIER WILLIAMS HAMPTON 266A	GISTANDARD ERROR OF VAR CONTAINENTS CONTAINENTS COEFFICIENT OF SALSD VARIETY MEANS (	YIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT PLANTS PODS PER 100 SEED QUALITY

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PLANT	,	0.0	0 0	J. * J.	•	5.5		7.3	5.7	0.5	6.6	30.02	7 7		0.6	J . 1	J		1		10	50.40%	•		0.41++	009	0.55++	009	0.50++	009	-0.02	9	0.06	09	++000	9	* + O = O = O		2 0	0.00	77 5		9	-0.07	09	0.56++	09	00.0	09	-0.19++	) i
NODULE WEIGHT 2	(	00	0 0	10		ς,	.5	*	۲.	77 .	77	1,01	2	) =	\$ L	n t	ς.	1.64	)	-	FO 504	N + + + + + + + + + + + + + + + + + + +			0.11+	240	0.06	5	0.08	54	0.23++	54	0.52++	540	0 1	υ 10	00.0	140	- ::	0.0	· 3	10,08	5	. 2	540	0.	54	0.194+	54	-0.12+	0 1
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NODULE NUMBER 2 W		0.70		1 0 7 0	1 - 7 0	25.6	7.16	09.3	97.2	07.2	25.3		944	, (	n .	р ( •	÷	231.97		- LC	•	47.94%	1	PROB=.01)	-0.03	009	-0.02	9	0.14++	009	0.57++	009	1.00	600	++61.0	~ /	**>C.O	200	90.0	-0.11++	540	-0-11++	009	0.22++	009	-0.10+	009	0.01	009	-0.28++	)   
NODULE NUMBER 1 N			- :	20 1	0.	0	<b>_</b>	· retro	9	NO	-	122.45	LC	3 0	9 3	÷ 1	-	123.98	-	- [	- [	32.76		- ++ - ++ -	-0.17++	009	+60 * 0-	009	0.02	009	1.00	009	0.57++	600	++0000	000	7 T T T T T T T T T T T T T T T T T T T		20.02	10.01	0.00	0.04	009	0.19++	009	-0.13++	009	-0.06	000	-0.16++	
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YIELD KG/HA		<b>~</b> ) (	7	25/8.38	3	0	7	9	9	77	LC	2274-10	- 3	0 0	0 0	2032.83	1968.75	2377.24			30 50%	341.42	1	BER OF OBSER	1.00	-		009	0.58++	009	-0.17++	009	-0.03	009	++71.0	000	F (1 )	4465	• • • • •	-0.01	540	-0-18++	009	-0.00	009	٠.	=	3	5	-0.05	5 1
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VARIETY OR CROSS	-	HARDEE	DAVIS	BOSSIER	BRAGG	FORREST	WILLIAMS	IMPROVED PELICA	PB-1	5.J.2	HAMPHON 266A	TRACT	7 20 4 1 7	0 0	JUPLIER	BONUS	HILL	0	NOT RENGELARIZE ARRENTIN	מי מטממם עמיי		S% TSD VARIETY MEANS (	משור ווחדו ווחדו	CORRELATI	YIELD		DAYS TO		DAYS TO		NODULE		NODULE	t	NODOLE	1	NO DOON	FNKIC	T NEW Z					PLANTS		PODS PER		100 SEED		QUALITY	

QUALITY OF SED		1.72	1.39	1.39	1.47		1.25		V	75.	7 7	1 50	00.1	1.56		1.47	ر عرف	52 BBS	0.37	PROB=.01)	-0.05	540	0.03	540	540	-0.16++	240	-0.28++	540	+ * * * * * * * * * * * * * * * * * * *	-0-12+	087	-0.19++	240	#O * O	400	++71-0	04C	240	80.0-	240	0.26++	0.4C	0000
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PODS PER 1		21.35	22.90	18.48	23.20	19.17	27.43	31.61	77.97	24.18	18.20	21.67	31.02	21.15		23.77	- '	0 ^	4.55	(+ - PROB	0.59++	009	++ 11 0	009	0.50++ 600	-0-13++	009	-0.10+	009	20.07		240	0.56++	009	0.15++	540	-0.11++	000	1000	1.00	009	+60.0	009	0.08
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TIN PILOTE OF THE STATE OF THE	4 '	1.10	1.20	1.08	1.03	1.00	1.25	<del>ا</del>	1, 15	1.05	1,13	œ (	4	1.13	•	1.17	genter 1		0.33	MBER OF OBSER	-0.18++	009	0.05	009	00.0	200	009	-0.11++	009	-0.05	000	540	-0.02	009	-0.10+	240	1.00	009	10.0	-0.11++	009	-0.14++	009	540
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DAVIS		2392.09		ć	. 2	20	7	6	0	1.08
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TRACI		14.28.92		,	- 1	- 0	- (	٥١	- 1	
WOODWORTH		1304.97	26.56	80.22	111.04	159.89	0.00	2.26	33.47	1.31
GRA	AND MEAN	1813.42	30.64	88.44	134.87	248.94	0.80	2, 68	33.79	1.23
NUMBER EXPERIMENTS CONTR	CONTRIBUTING	6						カ		
	VARIETY MEAN	0		. 43	2	5.82	0.1		CA	۰
COEFFICIENT OF VA 5% LSD VARIETY MEANS (**	OF VARIATION IS (*****INS)	38.73%	14.22%	y.72% 4.02	51°748 *******	54.88%	o *	0 ¥	38.41%	66.51%
CORRELATIONS	AND	NUMBER OF OBSER	VATIONS	(+ - PRO	B=.05, ++	- PROB=.01)				
YIELD	KG/HA	1.00	-0.08	0.46++	0.11+	0.41++	3	60.0	0.41++	0.28++
		504	504	504	336	392	0	224	204	504
DAYS TO	FLOWER	0.00	00.1	++74-0	0.14+	0.10	0.53++	0.21++	0.23++	-0.13++
AM OF SYAG	WATHRIA	44900	0 47+	100	000	286	0 0	# 7 7 C	204	204
2	***	504	504	504	336	201	168	224	504	504
NODULE NU	NUMBER 1	0.11+	0.14+	60.0	1.00	0.56+	~	0.68++	0.01	90.0
N HIGGS	NIIMRER 2	336	336	336	336	336	168	168	336	336
1		392	392	392	336	392	168	224	392	392
NODULE WE	WEIGHT 1	0.30++	0.53++	0.38++	0.78++	0.62++	1.00	0.63++	0.04	-0.14
£		168	168	168	168	20 0	16	168	168	168
A A A A A A A A A A A A A A A A A A A	Z INSIGM	D . C	224	0.04	168+ 168	0.63++ 22#	0.0	1.00	-0.11	-0.21++
PLANT	HEIGHT	0.41++	0.23++	0.37++	0.01	0.15++	0.0-	-0.11	1.00	0.38++
	1	504	504	504	336	$\sim$ 1	168	224	504	504
7	LODGING	++ 87 · 0	++5 - 0 - 50 5	++8L *O	90.0	++ h7 · 0	169	+0.21++	0.38++	000.
S	SHATTER	-0.01	60.0-	#0°0	0.07	766	00.00	00.00	0.13++	0.08
		877	877	877	280	336	112	168	877	7 7
PLANTS H.	HARVEST	0.03	-0.28++	-0.17++	-0.05	60.0	-0.30++	-0.14	-0.12++	0.10+
í	1	877	877	8777	336	33	168	168	7 77	7 7
Pous Per	PLANT	5.04	0.38++ 504	++0c.0	10.0-	90.0	0.13	-0.03	0.58++	0.12++
100 SEED	WEIGHT	0.56++	-0.41++	0.21++	0.27++	0.38++	0.47++	. 0.02	0.14++	0.31++
		504	504	204	336	39	16	224	50	50
QUALITY O	OF SEED	-0.15++	60.0-	60.0-	-0.10	-0.22++	-0.01	-0.12	0.03	10.0-
		20 77 77	20 77 77	20 to to	280	336	112	168	8111	877

QUALITY OF SEED	603.258 603.258 603.258 603.258 603.258	PROB=.01
100 SEED WEIGHT	19.63 19.98 16.78 16.78 19.00 19.85 19.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30 10.30	05, ++ -0.41+ -0.41+ 504 -0.41+ 504 -0.41+ 0.38+ 0.02 392 0.02 392 0.02 0.03 0.02 0.02 0.02 0.02 0.02 0.0
PODS PER PLANT	21.26 30.61 25.46 23.15 23.15 20.33 19.62 19.62 19.74 15.74 15.74 15.85 15.85 1.35 3.80	0.56 ++
PLANTS	196.09 172.84 189.25 174.00 171.50 177.50 177.50 177.50 177.88 177.88 177.88 177.88 177.88 177.88 177.88 177.88 177.88	ERVATIONS  0.03  0.048  0.048  0.048  0.07  448  0.09  0.09  0.09  1.09  0.104
SHATTER	**************************************	BER OF OBS
	GRAND MEAN CONTRIBUTING VARIETY MEAN OF VARIATION IS (*****=NS)	KG/HA  KG/HA  RG/HA  PLOWER  MATURITY  NUMBER 1  NUMBER 2  WEIGHT 1  WEIGHT 2  HEIGHT 2  HEIGHT 7  LODGING  SHATTER  HARVEST  PLANT  WEIGHT  OF SEED
VARIETY OR CROSS	DAVIS JUPITER HARDEE FORREST COBB BOSSIER IMPROVED PELICA HAMPTON 266A COLUMBUS SEMMES WILLIAMS TRACY TRACY CLARK 63 WOODWORTH WOODWORTH GSTANDARD ERROR OF VAR COEFFICIENT OF	YIELD DAYS TO F DAYS TO MAT NODULE NUM NODULE WEI NODULE WEI PLANT H PODS PER 100 SEED W QUALITY OF

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HARDEE  BASSIER  BASS	48 46.00 47.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 48.00 49.	129.41 136.32 136.33 1021.03 1021.03 102.32 103.52 104.04 104.32 104.46 104.46 105.46 106.46 107.46	260.41 260.41 260.34 182.54 182.57 207.09 108.52 179.55 210.00 210.29 14.02 44.21 39.38	*  *  *  *  *  *  *  *  *  *  *  *  *	** ** ** ** ** ** ** ** ** ** ** ** **	7.17.02.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	0.000
HARDEE  DAVIS  DAVIS  BOSSIER	448 94.00 44 4 47.56 23 47.56 24 47.57 27 45.65 29 42.65 29 42.65 11 1.19 11 1.19 12 42.65 14 0.83 40 440	12.32 112.32 112.32 121.039 101.64 112.59 112.59 113.56 113.66 11	222 222 338 338 34 552 552 552 552 552 552 552 552 552 55	1000mmmmmm = 1200 = 1		7.1 33.8 33.8 1.0 2.2 2.2 2.2 2.2 3.0 1.0 6.7 6.7 6.7 6.7	0.0000000000000000000000000000000000000
DAVIS  DAVIS  BOSSIER  BOSSIER  CALLIAMS  FORREST  TARENOVED PELICAN  HANPTON 266A  HANPTON 266A  TOPITER  GRAND MEAN  COEFFICIENT OF VARIATION  VARIETY MEANS  YIELD  YIELD  YIELD  NODULE NUMBER 1  440  NODULE WEIGHT 1  0.11+  400  NODULE WEIGHT 1  0.11+  400  NODULE WEIGHT 2  0.11+  10.01	### 94.00  ### 44.00  ### 44.00  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  ### 45.65  #### 45.65  #### 45.65  #### 45.65  #### 45.65  #### 45.65  #### 45.65  #### 45.65  #### 45.65  #### 45.65  #### 45.65  ##### 45.65  ##################################	112.32 136.399 101.64 95.91 113.59 114.35 104.32 104.32 61.07 ************************************	41 · 32219 00521889	1007E FURRENDED		8.7.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	
BOSSIER WILLIAMS WILLIAMS WILLIAMS PORREST PORREST POSSIER  HAMPROVED PELICAN POSSIER  HAMPTON 266A  CLARK 63  JUPITER  EXPERIMENTS CONTRIBUTING  EXPERIMENTS CONTRIBUTING  EXPERIMENTS CONTRIBUTING  EXPERIMENTS CONTRIBUTING  EXPERIMENTS CONTRIBUTING  POSSIER  COERFICIENT OF VARIATION  VARIETY MEANS  VARIETY MEANS  (*****=NS)  YIELD  KG/HA  440  DAYS TO MATURITY  480  NODULE NUMBER 1  440  NODULE NUMBER 2  440  NODULE WEIGHT 1  60.11  400  NODULE WEIGHT 2  360	448	136.39 121.09 101.09 112.59 112.59 112.59 113.66 113.66 11.04 113.66 11.07 113.66 11.07 11.04 11.07 11	32778 00000000000000000000000000000000000	1007t tummmmu	*	0.1.0 4.6 7.0 1.1 6.7	1.00.1.
WILLIAMS FORREST TMANDED ELICAN FORREST TRACY CLARK 63 JUPITER  EXPERIMENTS CONTRIBUTING RD ERROR OF VARIETY MEAN COEFFICIENT OF VARIATION VARIETY MEANS TIELD FLOWER H40 DAYS TO FLOWER H40 DAYS TO MATURITY H40 NODULE NUMBER 1 0.010 H40 NODULE NUMBER 2 0.10+ H40 NODULE WEIGHT 1 0.11+ H40 NODULE WEIGHT 2 0.275+ H40 NODULE WEIGHT 2 0.275+ H40 NODULE WEIGHT 1 0.11+ H40 NODULE WEIGHT 2 0.275+	23	121.009 101.649 113.522 112.539 113.522 113.66 113.	32212 0527867	- 120 T # 120 M M M M M	* * * * * * * * * * * * * * * * * * *	2.2 8.7 8.7 6.7 6.3	7.07 1.00 1.00 1.32 1.32
PORREST  IMPROVED PELICAN  IMPROVED PELICAN  INDEACY  CLARK 63  JUPITER  GRAND MEAN  EXPERIMENTS CONTRIBUTING  RD ERROR OF VARIETY MEAN  COEFFICIENT OF VARIATION  VARIETY MEANS  (*****=NS)  YIELD  YIELD  KG/HA  440  DAYS TO MATURITY  440  DAYS TO MATURITY  WHO  DAYS TO MATURITY  WHO  NODULE NUMBER 1  O.10+  440  NODULE NUMBER 2  440  NODULE WEIGHT 1  O.11+  400  O.10+  HOU  NODULE WEIGHT 2  O.27+	23 64.67 95.56 91.67 92.83 62.83 12.83 12.83 13.33 14.00 14.00 14.00	101.64 95.91 112.592 109.339 104.32 104.32 61.07 ************************************	22278 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 - 12 - 12 - 12 - 12 - 12 - 12 - 12 - 1		4.0 10.0 1.1 6.3	1.00
IMPROVED PELICAN HAMPTON 266A HAMPTON 266A HAMPTON 266A TOTACY CLARK 63 JUPITER  EXPERIMENTS CONTRIBUTING HOSPICIENT OF VARIATION SOURCE CORRELATION WARIETY MEANS (*****=NS) COERPEICTIONS AND NUMBER OF OBSERVA YIELD KG/HA H40 DAYS TO MATURITY 480 NODULE NUMBER 1 -0.01 H40 NODULE NUMBER 1 -0.01 H40 NODULE WEIGHT 1 0.11+ H40 NODULE WEIGHT 2 0.10+ H40 NODULE WEIGHT 2 0.10+	25 45.56 47.42 67 45.83 67 45.83 73 42.05 74 11 11 11 11 12 78 3.33 NS (+ - PR	95.91 113.52 1109.339 100.339 104.32 10.44 61.07 ************************************	41 . 32219 055248	7 7207E CUMMR		6.7	1.61
HANPTON 266A  TRACT  CLARK 63  CLARK 63  CLARK 63  JUPITER  EXPERIMENTS CONTRIBUTING  EXPERIMENTS CONTRIBUTING  RD ERROR OF VARIETY MEAN  COEFFICIENT OF VARIATION  AND ERROR OF VARIETY MEAN  COEFFICIENT OF VARIATION  AND COEFFICIENT OF VARIATION  TIELD  YIELD  KG/HA  480  DAYS TO FLOWER  NODULE NUMBER 1  440  NODULE NUMBER 1  440  NODULE WEIGHT 1  0.11+  440  NODULE WEIGHT 2  0.27+  440  NODULE WEIGHT 2  0.77+	27 91.42 993 65.83 29 42.05 111 1.12 73 8.88 11 0.83 40 653 40 653 40 653	113.552 112.559 112.552 113.66 113.66 61.07 ************************************	552 552 552 553 553 553 553 553 553 553	1007¢ ¢208M	**** * ***	6.7	1.05
TRACY CLARK 63  CLARK 63  CLARK 63  JUPLTER  EXPERIMENTS CONTRIBUTING  EXPERIMENTS CONTRIBUTING  COEFFICIENT OF VARIATION  VARIETY MEANS  CORRELATIONS (****=NS)  YIELD  YIELD  YIELD  KG/HA  480  DAYS TO MATURITY  480  NODULE NUMBER 1  440  NODULE NUMBER 2  440  NODULE WEIGHT 1  0.10+  400  NODULE WEIGHT 1  0.10+  400  NODULE WEIGHT 2  360	943 85.83 29 92.65 42.65 43.33 17 1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12	112.59 109.39 109.39 109.39 10.46 61.07 ************************************	20 00 00 00 00 00 00 00 00 00 00 00 00 0	and allone tone	· · · · · *	1.1 6.3	1.32
CLARK 63  JUPITER  GRAND MEAN 2166.37  EXPERIMENTS CONTRIBUTING 12  RD ERROR OF VARIETY MEAN 99.48  COEFFICIENT OF VARIATION 31.82%  VARIETY MEANS (*****ENS) 279.17  CORRELATIONS AND NUMBER OF OBSERVA  YIELD KG/HA 1.00  A40  DAYS TO FLOWER 440  NODULE NUMBER 1 0.53++ 440  NODULE NUMBER 1 0.10+ 440  NODULE WEIGHT 1 0.11+ 400  NODULE WEIGHT 2 0.11+	29 42.05 111 12 74 1.19 96% 3.33 19 3.33 NS (+ - PR 440	109.32 104.32 10.46 11.4	38 38 38 60 60 60 60 60 60 60 60 60 60 60 60 60	1007 t	· · · · · *	6.3	1,32
EXPERIMENTS CONTRIBUTING  EXPERIMENTS CONTRIBUTING  RD ERROR OF VARIETY MEAN  COEFFICIENT OF VARIATION  31.82%  VARIETY MEANS (*****=NS)  CORRELATIONS AND NUMBER OF OBSERVA  YIELD KG/HA  480  DAYS TO FLOWER  NODULE NUMBER 1  440  NODULE NUMBER 1  440  NODULE WEIGHT 1  0.11+  440  NODULE WEIGHT 2  0.77+  0.53++  440  NODULE WEIGHT 1  0.11+  0.77+  0.77+  0.77+	29 92.05 13 1.19 74 1.19 96% 0.88% 13 33 NS (+ - PR 440 440	10.4.32 113.66 10.46 ************************************	32027	1 1001t	* · · · *	6.3	1.61
EXPERIMENTS CONTRIBUTING  RD ERROR OF VARIETY MEAN  COEFFICIENT OF VARIATION  31.82%  VARIETY MEANS (*****=NS)  CORRELATIONS AND NUMBER OF OBSERVA  YIELD KG/HA  480  DAYS TO FLOWER  NODULE NUMBER 1  440  NODULE NUMBER 1  440  NODULE WEIGHT 1  0.11+  440  NODULE WEIGHT 2  0.11+  0.11+	1.19 1.19 3.33 4.40 440	113.66 10.46 61.07 ******* 10.46 10.	0.29 4.02 4.02 8=.0 0.10 440	3 T O O T E	· · · *		
EXPERIMENTS CONTRIBUTING  RD ERROR OF VARIETY MEAN COEFFICIENT OF VARIATION 31.82% VARIETY MEANS (*****=NS)  YIELD KG/HA 1.00  PAYS TO FLOWER 440  DAYS TO MATURITY 0.01  WODULE NUMBER 1 0.534+  440  NODULE NUMBER 2 0.10+  440  NODULE WEIGHT 1 0.11+  400  NODULE WEIGHT 2 0.10+	1.19 3.8% 3.33% (+ - +) 0.534 440	**************************************	11 4.02 9.38 9.38 B=.0 0.10 440	1001	* • *	43.17	1, 19
RD ERROR OF VARIETY MEAN 99.48  COEFFICIENT OF VARIATION 31.82% VARIETY MEANS (*****=NS) 279.17  CORRELATIONS AND NUMBER OF OBSERVA  YIELD KG/HA 4.80  DAYS TO FLOWER 440  NODULE NUMBER 1 440  NODULE WEIGHT 1 0.11+  400  NODULE WEIGHT 2 0.010  PIANT HEIGHT 2 0.77+	1.19 3.83 3.33 (+ - PR 440 440	**************************************	4.02 4.21 9.38 B=.0 0.10	120	* • * ← ∞ *	_	
COEFFICIENT OF VARIATION  VARIETY MEANS (*****=NS)  CORRELATIONS AND NUMBER OF OBSERVA  YIELD KG/HA 420  DAYS TO FLOWER 0.53**  HQO  NODULE NUMBER 1 -0.00  HQO  NODULE NUMBER 2 440  NODULE WEIGHT 1 0.11*  HOOULE WEIGHT 2 3.60  DIANT HEIGHT 2 3.60	3.83 3.33 (+ - PR 0.53+ 440	**************************************	4.21 9.38 B=.0 0.10	U = +	∞ ¥	.2	
VARIETY MEANS (*****=NS) 279.17  CORRELATIONS AND NUMBER OF OBSERVA  YIELD KG/HA 4.00  DAYS TO FLOWER 0.53++ 440  NODULE NUMBER 1 -0.00  NODULE NUMBER 2 440  NODULE WEIGHT 1 0.11+ 400  NODULE WEIGHT 2 3.60	3.33 (+ - PR 0.53+ 480	* 0 * •	л щ O	<del></del>	*	35.49%	58.20%
AND NUMBER OF OBSERVA  LOWER 480  U.01  480  U.01  480  U.01  480  U.01  440  BER 1 -0.00  HQ  BER 2 0.10  440  SHT 1 0.11  400  SHT 2 0.10	(+ - PR 0.53+ 480	8 = 0	ш о	7		7.	
YIELD KG/HA 1.00  AYS TO FLOWER 440  AYS TO MATURITY 0.53++  400  NODULE NUMBER 1 -0.00  HQQ  NODULE WEIGHT 1 0.11+  QOO  DIANT HEIGHT 2 360	0.53	00.00	0.10+	4.4			
AYS TO FLOWER 0.01  480  AYS TO MATURITY 0.53++ 480  NODULE NUMBER 1 -0.00  440  NODULE WEIGHT 1 0.11+ 400  NODULE WEIGHT 2 3.60  DIANT HEIGHT 2 3.60		0 # # 0	0 27 27	+ 0	0.10	0.27++	-0.01
AYS TO FLOWER 0.01  AYS TO MATURITY 0.53*+  440  NODULE NUMBER 1 -0.00  440  NODULE WEIGHT 1 0.11+  400  NODULE WEIGHT 2 3.60  DIANT HEIGHT 2 3.60		. < 4 .		001	360	480	0111
AYS TO MATURITY 0,53++ 440 NODULE NUMBER 1 -0.00 440 NODULE WEIGHT 1 0.11+ 400 NODULE WEIGHT 2 0.10 DIANT HEIGHT 2 3.60		+01.01	00 0 0 -	90.0	0.08	0.55++	0.25++
AVS TO MATURITY 0.53*+  NODULE NUMBER 1 -0.00  NODULE NUMBER 2 0.10+  440  NODULE WEIGHT 1 0.11+  400  PIANT HEIGHT 2 3.50+		0 17 17	0111	001	360	0111	00 7
E NUMBER 1 -0.00  E NUMBER 2 0.10+  E WEIGHT 1 0.11+  400  E WEIGHT 2 0.10  360		0.05	0.17++	0.15++	0.07	0.48++	0.19++
E NUMBER 2 -0.00 E NUMBER 2 0.10+ 440 E WEIGHT 1 0.11+ 400 E WEIGHT 2 0.10 360		01/1	077	0017	360	480	0111
E WEIGHT 1 0.10+ 440 E WEIGHT 1 0.11+ 400 E WEIGHT 2 0.10 360		1.00	0.68+	0.37++	++#7 0	-0.07	-0.01
E WEIGHT 1 0.10+  E WEIGHT 1 0.11+  400  E WEIGHT 2 0.10  T HEIGHT 0.27+		0 17 10	0 77 77	007	360	0 77 7	400
E WEIGHT 1 0.11+ 400 E WEIGHT 2 0.10 T HEIGHT 0.27+		++89.0	00::	0.21++	0.53++	0.02	70.0-
E WEIGHT 1 0.11*  E WEIGHT 2 0.10  360  T HEIGHT 0.27**	044	0##	0 17 17	400	360	0 17 17	004
E WEIGHT 2 0.10 360 THETCHT 0.27++		4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	++   7 · 0	000	**************************************	+++0	360
360 HRTCHT 0.27++		0.24++	0.53++	0.58++	1.00	0.16++	0,08
HETCHT 0.27++		360	360	360	360	360	320
4 1104 711		-0.07	0.02	0.14++	0.16++	1.00	0.47++
084		077	0111	004	360	084	011
<del>-</del>	_	-0.01	-0.07	0.27++	0.08	0.47++	1.00
077		00#	400	360	320	044	077
4+5		0.05	-0°07	-0.08	+0.13+	00.0	80.0-
		0 77 7	01111	000	360	084	0440
PLANTS HARVEST 0.14++ -0.10+	10.10+ 0.04 040 040	++67.0	++67.0	++0+*0	360	80.0-	0.02
++0		-0,18++	10.08	10.02	70.0	0.52++	0.23++
077		077	077	000	360	077	0 7
3++		0.13++	0.16++	0.29++	0.25++	-0.01	10.0-
0 11 11 11 11 11 11 11 11 11 11 11 11 11		0111	0111	004	360	044	0 7
5++		-0.35++	++04.0-	0.15++	-0.17++	-0.05	0.02
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QUALITY OF SEED	1.57	1.91	1.66		1.75	1.48	1.82	1.86	1.68	2.20	1.73	11	0.16	62.83%	94.0	PROB=.01)	-0.35++	011	0 16 ++	004	0.0	044	++ 55.0-	++0=	400	0.15++	360	-0.17++	3.20	-0.05	0111	0.02	007	0.01	077	-0.07	044	10.0-	004	0.01	004	1.00	077
100 SEED WEIGHT	17.61	18.40	17.22	19.90	15.64	14.40	20.02	19.08	18.02	18.44	17.87	11	0.43	16.01%	1.21	PROB=.05, ++ -	0.53++	0 17 17	-0.16++		++26.0	0440	++51.0	0 1644	077	0.29++	001	0.25++	360	-0.01	0 17 17	+0.0-	004	-0.14++	0 7 7	0.11+	0 11 11	0.23++	0111	1.00	<b>+</b>	0	00 1
PODS PER PLANT	26.19	21.27	22.43	18,85	22.82	27,32	23,50	17.75	21.54	30.86	23,25	11	1.46	41.79%	4.12	(+ - PROB	0.56++	0 7 7	0.39++	0 1 1 1 1	0.55++	2	-0.18++	0 0 0	00.0	-0.02	001	0.04	360	0.52++	0 17 17	0.23++	007	-0.08	044	-0.42++	O :	1.00	011	0.23++	0 7 7	10.0-	0017
PLANTS HARVEST	232.23	245.23	228.40	231.27	236.88	232.73	2 08 . 40	237.40	231.96	210.71	229.52	12	8.41	25.40%	****	OBSERVATIONS	0.14++	084	-0.10+	0 7 7	70.0	084	++67.0	77000	0.230	++0+"0	004	0.24++	360	-0.08	084	0.02	0 11 11	0.08	084	1.00	084	-0.42++	044	0.11+	0 7 7	-0.07	0 11 11
SHATTER	1.08	1.06	1.17	1.00	1.04	1.21	1.04	1,10	1.71	1.17	1.16	12	0.11	68.07 %	0.32	OF	-0.13++	087	60.0	044	0.01	084	0.05	7 0	000	-0.08	004	-0.13+	360	-0.00	087	-0.08	011	1.00	087	0.08	084	-0.08	01/11	-0.14++	0111	0.01	0 7 7
						Z					GRAND MEAN	CONTRIBUTING	VARIETY MEAN	OF VARIATION	(SN=****)	ONS AND NUMBER	KG/HA		PLOWER		MATURITY		NUMBER 1	CODOMIN	м.	WEIGHT 1	6	WEIGHT 2		HEIGHT		LODGING		SHATTER		HARVEST		PLANT		WEIGHT		OF SEED	
VARIETY OR CROSS	HARDEE	DAVIS	BOSSIER	WILLIAMS	FORREST	IMPROVED PELICAN	HAMPTON 266A		CLARK 63	63		UMBER EXPERIMENTS CON	ARD ERROR OF	COEFFICIENT	22.	CORRELATIONS	YIELD		DAYS TO		DAYS TO		NODULE	G C N	7000	NODULE		NODULE		PLANT						PLANTS		PODS PER		100 SEED		QUALITY	

Table 45 Combitted analysis of CENT. 8 SO. AMERICAN SIEES IN 3073 [ FOR ISVEX-3

The Property   The	VARLETY OR CROSS	Yldio KG/8a	JAYS LO	DAYS TO MALURITY	NODULE NUMBER 1	NODULL NUMBER 2	NOULE WEISLT 1	NODULE *SIGUE	PLANT	LobifyG
MANTEN   M		2011.65	37.33	110.43	157.29	331.27	1.12	T.	49.54	1.42
Colores   Colo	UVED	2485.67	35.00	74.66	145.30	137.46	1.03	. J	65.03	1.40
MARKED   M	DAVES	2441.96	33.57	100.90	142.85	278.81	1.36		34.70	1.27
Harring School	HARORES OF THE COLUMN	2300.34	20.00	104.00	131.92	307.02	7.05	0,1	47.20	1.29
######################################	JOANEST.	2217.41	31.72	47, 15	127.00	200.00	J. C.	1 .	36,13	1.13
The line of the late of the	0	2168.93	32.25	100.98	157.69	284.63	1.03	) T	32.14	1.13
## 1945   1944	WILLIAMS	76.1837	30.43	92,38	135.77	293.56	1,12	· ~	42.45	1.15
CORRECTION   176-13.   17-0.	40351Ex	-	33.70	100,83	135,33	273.15	1.03	5	34.23	1.42
## COMPARING CONTRINGER   1555-62   11-10   11	FRACY	3	31.07	91.08	115.92	187.54	1.00	0.	33.71	1,23
## CORNED TRANSCRIPTION AND THE TOTAL TOTA	Comm		32.45	99.73	116.67	27.5.75	1.00	~	31.63	1, 19
The black of Periods   1988	T. M. O. M. C. C. W	1535.62	31.15	91.73	103.27	186.38	75°C	. 7	39.12	1.23
UNDER ACREMENTARY   1.6   1.6   1.6   1.6   1.7   1.		2147.	32.47	48,29	٠,	271 07	d C	1.0	1	,
STANDARD RIGHT TARN   12-11   1-51   1-52   1-53   1-540.8   1-5	LAPERIMENTS CONTRIBU		15	15	)	12	10	•	4	-, C.4
VIELD VARIETING (*******)	STANDARD ERROR OF VARIETY ME	120.	0.66	1.63		31.71		~ ~	2 35	0, 13
YIELD   KG/HA   1.00   0.077   0.034   -0.06   0.00   -0.07   0.034   -0.06   0.00   -0.07   0.034   -0.06   0.00   -0.07   0.034   -0.06   0.00   -0.07   0.034   -0.06   0.004   -0.07   0.034   -0.07   0.034   -0.07   0.034   -0.07   0.034   -0.07   0.034   -0.07   0.034   -0.07   0.004   -0.07   0	% LSD	45.	15.40%	12.82%		80.44 %	- H	4.34	43.74%	59.903
YEELD   KG/KHA   1.00   0.077   0.084   -0.06   0.000   0.077   0.084   0.067   0.084   0.067   0.084   0.067   0.084   0.077   0.084   0.08		00	RVAPTONS	- +)	77	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			- 0 0	- 0 - 0
YEEL   KG/HA   1.00   0.07   0.084   -0.06   0.00   0.024   0.04244				10017	• • • • • • • • • • • • • • • • • • • •	1				
YS TO KLOWER 10.07 1720 0.35+ 0.12++ 0.16+ 0.25++ 0.39++ 0.05  YS TO MATDETY 0.08+ 0.25++ 0.15+ 0.10+ 0.25++ 0.39++ 0.05  YS TO MATDETY 0.08+ 0.25++ 0.10+ 0.001 0.001 0.007  YS TO MATDETY 0.08+ 0.25++ 0.001 0.001 0.007  ODULE NUMBER 1 -0.00+ 0.25++ 0.001 0.001 0.007  ODULE NUMBER 2 0.001 0.10+ 0.009+ 0.007  ODULE WEIGHT 1 -0.004 0.25++ 0.007 0.10+ 0.007  ODULE WEIGHT 1 -0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 2 0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 3 0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 4 0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 5 0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 7 0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 7 0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 8 0.004 0.25++ 0.007 0.10+ 0.007  DOULE WEIGHT 7 0.004 0.20++ 0.007 0.10+ 0.007  DOULE WEIGHT 7 0.004 0.10+ 0.007  DOULE WEIGHT 8 0.007  DOULE WEIGHT 9 0.007  DOULE WEIGH 9 0.007  DOULE WEIGHT 9 0.007  DOULE WEIGHT 9 0.007  DOULE WEIGH 9 0.007  DOULE WEIGHT 9 0.007  DOULE WEIGHT 9 0.007  DOULE WEIGH 9 0.007  DOULE WEIGHT 9 0.007	IELD	1.0	0.07	0.08+	-0.06	00.0	+0.0-	0.04	0.42++	0.19++
YS TO WINDER 1 1.00 0.35++ 0.12++ 0.16+ 0.25++ 0.13++ 0.05  YS TO WINDER 1 1.00 0.35++ 1.00 0.01 0.04+ 0.07  YE TO WINDER 1 1.00 0.12+ 1.00 0.01 0.04+ 0.07  ODULE NUMBER 1 1.00 0.12+ 0.01  ODULE NUMBER 1 1.00 0.12+ 0.01  ODULE NUMBER 2 0.00  ODULE NUMBER 1 1.00 0.12+ 0.01  ODULE NUMBER 2 0.00  ODULE NUMBER 2 0.00  ODULE NUMBER 3 0.00  ODULE NUMBER 4 0.00  ODULE NUMBER 5 0.00  ODULE NUMBER 5 0.00  ODULE NUMBER 6 0.00  ODULE NUMBER 7 0.00  ODULE NUMBER 7 0.00  ODULE NUMBER 7 0.00  ODULE NUMBER 8 0.00  ODULE NUMBER 9 0.00  ODULE NU	0 0	7.7	720	720	576	576	081	0 € 10	720	624
YS TO WATURITY C.08 1.55 1.70 0.71 0.78 480 480 721 1.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	AYS TO	0.0	7.00	0.35++	0.12++	0.10+	0.25++	0.39++	0.05	0.39++
ODULE NUMBER 1        0.0         7.20	AYS TO MAFIIET	2 0 0	35++	1 00	0/0	2/4	787	430	72)	624
ODULE NUMBER 1 -0.06		7.7	720	720	576	+ 60.0	0.01	90.0	0.10++	0.27++
ODULE WINBER 2 576 576 576 576 6.55 + 1.00 0.30 + 0.777 + 0.575 576 576 576 576 576 576 576 576 576	E NUMBER	0.0-	0.12++	0.01	1.00	0.65+	0.78+	++500	123	h 24 -0 18+4
ODULE WIRBER 2 0.00 0.10+ 0.09+ 0.65++ 1.00 0.30++ 0.77++ 0.02 576 576 480 480 480 6576 576 576 480 480 576 576 576 480 480 576 576 576 480 480 576 576 576 480 630 576 576 644 1.00 0.66++ 0.00 576 576 480 480 630 576 576 480 630 576 576 644 1.00 0.65++ 0.00 576 644 1.00 0.65++ 1.00 0.65++ 1.00 0.66++ 1.00 570 10++ 0.05 570 10++ 0.66++ 1.00 0.62 570 100 0.02 570 100 0.02 570 100 0.02 570 100 0.02 570 100 0.02 570 100 0.02 570 100 0.03 570 100 0		57	576	576	576	576	084	480	576	087
DOULE WEIGHT 1 -0.04 0.25++ -0.07 0.78++ 0.576 4430 0.66++ -0.00 0.66++ -0.00 0.00 0.66++ -0.00 0.66++ -0.00 0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ -0.00 0.66++ 1.	ENUMBER	0.0	0.10+	+60.0	0.65++	1 . 00	0.30++	0.77++	0.02	-0.23++
DULE WEIGHT 2	E WEIGHT	0-0-	010	7/0	576	576	083	480	576	480
DULE WEIGHT 2 0.04 0.39++ 0.06 0.69++ 0.77++ 0.66++ 1.00 -0.02  PLANT HEIGHT 0.42++ 0.05 0.10++ 0.02 0.02 0.02 0.02  LODGING 0.19++ 0.05 0.10++ 0.02 0.02 0.02 0.02  LODGING 0.19++ 0.27++ 0.27++ 0.23++ 0.23++ 0.23++ 0.23++ 0.23++ 0.24		70 77	0.84	085	480	# O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00.1	0.00++	00.01	-0.12+
PLANT HEIGHT 0.42++ 0.05 0.10++ -0.02 0.02 -0.00 480 480 480 480 480 480 480 720 720 720 720 720 720 720 720 720 72	E WEIGHT	0.0	1), 39++	0.06	++69°0	0.77++	0.66++	1.00	-0.02	432 -0.21++
LODGING 0.19++ 0.05 0.10++ -0.02 0.02 -0.00 -0.02 1.00 720 720 720 720 720 720 720 720 720 7	:		480	084	08 h	081	480	440	480	432
LODGING 0.19++ 0.27++ 0.27++ 0.18++ 0.23++ 0.12++ 0.21++ 0.14++ 0.18++ 0.23++ 0.23++ 0.21++ 0.12++ 0.14++ 0.18++ 0.23++ 0.27++ 0.14++ 0.17++ 0.14++ 0.17++ 0.07+ 0.07+ 0.12++ 0.14++ 0.17++ 0.19++ 0.05  SEED WEIGHT 0.32++ 0.07+ 0.12++ 0.14++ 0.17++ 0.05  ALITY OF SEED 0.03 -0.23++ -0.12+ -0.13+ -0.12+ -0.22++ -0.10+  432 480 720 720 720 720 720 720 720 720 720 72	E		330	0.10++	-0.02	0.02	-0.00	-0.02	1.00	++ nn ° 0
SHATTER -0.19++ 0.57++ 0.19++ 0.23++ 0.09 0.34++ 0.28++ 0.21++ 0.57+  LANTS HARVEST 0.20++ -0.11++ -0.00 0.01 -0.11++ -0.07 0.00  SPER PLANT 0.34+ 0.07+ 0.12++ 0.17++ 0.19++ 0.09  SEED WEIGHT 0.32++ 0.02  ALITY OF SEED 0.03  ALITY OF SEED 0.03  SHATTER 0.20++ -0.12+ -0.13+ -0.12+ -0.12+ -0.10+  384  SHATTER 0.20++ -0.12+ -0.13+ -0.12+ -0.12+ -0.10+  480  480  720  720  720  720  720  720  720  7	LODGING	0	0.39++	0.27	184¢	0/5 -0-	480	480	720	624
SHATTER -0.19++ 0.57++ 0.19++ 0.23++ 0.09 0.34++ 0.28++ -0.21++  576 576 432  SA4 432  SA4 432  SA4 45 576  S76 576  S76 6.00  SPER PLANT 0.20++ -0.11++ -0.04  SPER PLANT 0.07+ 0.12++ 0.17++ 0.14++ 0.17++ 0.09  SPER WEIGHT 0.32++ 0.02  SPER WEIGHT 0.32++ -0.12+ -0.18++ -0.19++ -0.19+  720 720  SPER WEIGHT 0.25++ -0.18++ -0.19++ -0.19+  720 720  ALITY OF SEED 0.03  432 432  432 834  SA4 576  432 720  720 7			624	624	480	1087	121-0-	++12.0-	++++	00.1
LANTS HARVEST 0.20++ -0.11++ -0.00 0.01 -0.11++ -0.04 -0.07 0.00 -0.01 -0.11++ -0.04 -0.07 0.00 -0.00 -0.11++ -0.04 -0.07 0.00 -0.00 -0.01 -0.11++ -0.04 -0.07 0.00 -0.0	SHATTER	1	0.57++	0.19++	0.23++	60.0	0.34++	0.28++	-0.21++	0.15++
LANTS HARVEST 0.20++ -0.11++ -0.00 0.01 -0.11++ -0.04 -0.07 0.00 -0.00			576	576	432	432	384	384	576	576
S PER PLANT 0,33++ 0.07+ 0.12++ 0.17++ 0.14++ 0.17++ 0.09 0.41++  SEED WEIGHT 0.32++ 0.02 0.25++ -0.34++ -0.16++ -0.19++ 0.17+  ALITY OF SEED 0.03 -0.23++ -0.12+ -0.07 -0.07 -0.12+ -0.10+  432 432 384 288 288 480 720	SHARV		-0.11++	00.00-	0.01	-0.11++	+0.0-	-0.07	00.0	-0.01
SEED WEIGHT 0.32++ 0.02 0.25++ 0.14++ 0.17++ 0.09 0.41++  SEED WEIGHT 0.32++ 0.02 0.25++ -0.34++ -0.19++ -0.11+ 0.05  ALITY OF SEED 0.03 -0.23++ -0.12+ -0.07 -0.07 -0.12+ -0.10+  432 384 288 288 432	S PER DIA		120 0	07/	5/6	576	0.490	480	720	624
SEED WEIGHT 0.32++ 0.02 0.25++ -0.34++ -0.16++ -0.19++ -0.13+ 0.05 720 720 720 720 821TY OF SEED 0.03 -0.23++ -0.12+ -0.13+ -0.07 -0.12+ -0.22++ -0.10+ 288 288 432			720	720	576	0 14 + + + + C	++/1-0	0.09	0.41++	0.23++
OF SEED 0.03 -0.23++ -0.12+ -0.07 -0.07 -0.12+ -0.10+ -0.10+ -0.13+ -0.07 -0.12+ -0.10	SEED		0.02	0.25++	-0.34++	-0.16++	-0.19++	-0-11+	0.05	0 1/14
OF SEED 0.03 -0.23** -0.12* -0.07 -0.12* -0.22** -0.10* - 432 432 384 288 288 432 432	\$		170	720	576	576	480	430	720	624
354 384 288 288 432	). ()		-0.23++	-0.12+	-0.13+	-0.07	-0.12+	-0.22++	-0.10+	-0.12+
			432	432	384	384	288	248	432	384

7	а эсичимо с обрать с типомить с с типомить с с типомить с типомит	22 + + + + + + + + + + + + + + + + + +
OUALITY OF SERD		
100 SEED WEIGHT	= 17.55 17.55 17.55 19.68 17.68 17.68 19.92 19.92 19.93 17.68 19.57 19.57 19.57 19.57 19.57 19.57 19.57 19.57 19.57 19.57 19.57 19.57 19.57	-0.19++ -0.11+ -0.11+ -0.11+ -0.05 -0.03 -0.03 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05
PODS PER	25.25 27.03 27.03 27.03 27.03 27.03 27.03 27.03 27.03 27.03 27.03 27.04 27.14 1.62 4.54 4.54 1.52 0.33++ 0.33++ 0.33++ 0.720 0.7	576 0.17** 480 0.17** 480 0.23** 624 -0.23** 576 -0.35** 720 1.00 720 720 720 720 720 720 720 720 720 7
PLANTS HARVEST	ARVEST 178.32 178.32 176.65 176.65 177.72 170.38 173.33 173.33 173.33 174.38 174.38 175.28 175.28 175.28 175.20 169.17 169.17 169.17 169.17 1720 1720 1720 1720 1720 1720 1720 17	- 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0
SHATTER	MEAN  MEAN  T. 15  T. 19  T. 10  T. 1	0.34++ 3.84+ 3.84+ -0.28++ -0.28++ 5.76 -0.15+ 5.76 -0.12+ 5.76 -0.02 -0.12+ 5.76 -0.03
6 1 1 2 1 1 1 1	GRAND MEAN CONTRIBUTING VARIETY MEAN OF VARIATION IS (*****=NS) ATIONS AND NU ILD KG/HA TO FLOWER TO MATURITY ILE NUMBER 1	SHT ELIGH DGIN RVES PLAN SEE
VARIETY OR CROSS	PITER PROVED PEL UMBUS RABEST RABEST RACY MPTON 266A AACY ELIAMS SSIER SSIER SSIER CORREI RIETY MEAN RIETY MEAN RIETY MEAN RIETY MEAN NODI	ODULE ODULE PLANT SPER SEED SEED

TABLE 46 COMBINED ANALYSIS OF SITES IN ZONE II FOR ISVEX-3

The property   The	VARIETY OR CROSS	2	XIELD KG/HA	DAYS TO FLOWER	DAYS TO MATURITY	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NO DULE WEIGHT 2	PLANT	LODGING
PORTEST   1934.73   10.20   99.05   511.75   134.50   5.00   1.31   27.70   10.30   27.70			2393.63	○ 0 =	111.70	86.6	0.0	Am 19	VO F	57.25	1.00
PRINCEST   1569-12   196-13			1838.73	- 01	99.05	11.7		0 9	- LO	27.50	1.00
NOTICE   N	FORREST		1569.67	m 1	98.05	96.3	. 2	1	0	29.95	1.06
The property of the property	HARUEE		1522,33	ന	102.80	45.6	0.1	<b>动</b>		24.35	1.00
TREE EXPERIENCE CONTINUES NOT 1359-51 10-10 10-1			1459.82	NI 6	76. 10	7.97		0	中 :	22.95	1.00
### TELLIANS  ##	COLUMBUS		1258 51	n (*)	94.10	80°2	7.0	٠:	0 1	20.00	1.00
TERCY  TERCY  TERCY  TERCY  TERCY  TERCY  TERCY  TERCY  TERCY  TERCH TOWN THE TOWN T	WILLIAMS		1347,88	3 10	01.16	70.07	, r	1 1	- 1	33.45	1.06
THERE EXPERIENTS CONSTRUCTS  FARADACOPPETCHAT	TRACY		1154.47	2 0000	87.80	53.8	. 2	5	.o o	23.45	1.19
### REMERIENTS CONTRIBUTION 174,43   0.99   3.41   107.27   15.83   1.31   2   1.31    ***ARRETRIBUTION SAND NUMBER OF DESERVATIONS   4.59   4.15   4.15   4.15   4.15   4.15    ***ELSD WARRETRIAN (44.43   1.44   4.44		AND MEAN	1605.60	ထ	8.2	2.0	- 2	ហ	77 *	7	
TRED VOULE WIERER 2 -0.11 -0.22 -0.13 -0.2	EXPERIMENTS	RIBUTING	5	5				)	1	•	9
LED VAREETY FRANK (************************************	STANDARD ERROR OF VARIE	ETY MEAN	174.43	66.0	3.4	.27	5.8	.3	0.21	-	
SEED   NUMBER OF OBSERVATIONS   (+ - PROB=.05, ++ - PROB=.01)   Contractions and number of observations   (+ - PROB=.05, ++ - PROB=.01)   Contractions   C	LSD	RRIATION ****='NS)	48.58% 500.30	11.43%	5.5	07.59	5.2	5.46	30.13%	3° α	0.4
S TO   FLOWER   1.00   -0.36++   0.13   -0.11   -0.12   -0.22   -0.11   0.77++   0.75   -0.25   -0.15   -0.25   -0.15   -0.37   -0.37   -0.37   -0.35   -0.35   -0.25   -0.37   -0.3	CORRELATION	NS AND NUM	OB	NOI	1	= 05.	ROR				
STO FLORER   CG/HA   1.00					4		2				
STO FLOWER   -2.00	YIELD	KG/HA	1.00	-0.36++	0.13			. 2	-0.11	0.71++	0.28++
STONATURE NOT NEED	C	0.00	200	200	200		017	80	0 %	200	160
STO MATURITY 0.13 0.16++ 1.00 0.32++ 0.16 0.32++ 0.40 0.36++ 0.20  DULE NUMBER 1 -0.12 -0.18 0.32++ 1.00 0.44++ 0.80++ 0.50++ 0.50++ 0.11 -0.80++ 0.50++ 0.50++ 0.11 -0.80++ 0.50++ 0.50++ 0.50++ 0.11 -0.80++ 0.50+		FLOWER	-0.36+	000	0.46++	. 53+	-0.18	9 .	-0.37+	-0.18+	-0.19+
DULE WIRER 1 -0.11 0.53++ 0.32++ 1.00 0.44++ 0.80++ 0.50++ -0.20 0.35++ -0  DULE NUMBER 2 -0.12 -0.18 0.32++ 1.00 0.44++ 1.00 0.44++ 0.80++ 0.50++ -0.11 -0  DULE WEIGHT 1 -0.22 -0.18 0.16 0.44++ 1.00 0.40++ 0.80++ 0.50++ -0.10 -0  DULE WEIGHT 2 -0.10 0.32++ 0.33++ 0.40++ 1.00 0.40++ 0.80++ 0.50++ -0.10 -0  DULE WEIGHT 3 -0.22 0.67++ 0.32++ 0.40++ 1.00 0.81++ 0.57++ 1.00 0.09 -0  LANT HEIGHT 0.71++ 0.37+ 0.02 0.50++ 0.40+ 1.00 0.09 1.00  LODGING 0.28++ 0.01+ 0.03 0.40++ 1.00 0.09 1.00  SHATTER 0.21++ 0.07 0.16+ 0.01 0.40++ 0.00  SHATTER 0.55++ 0.010+ 0.010+ 0.010+ 0.010 0.00  SHATTER 0.50++ 0.81++ 0.40++ 0.40++ 0.00 0.00  SHATTER 0.50++ 0.81++ 0.40++ 0.40++ 0.00 0.00  SHATTER 0.51++ 0.05++ 0.010+ 0.00 0.00  SHATTER 0.51++ 0.010+ 0.00 0.00 0.00  SHATTER 0.51++ 0.010+ 0.00 0.00 0.00 0.00  SHATTER 0.50++ 0.00 0.00 0.00 0.00 0.00  SHATTER 0.50++ 0.00 0.00 0.00 0.00 0.00 0.00 0.	0	типртим	0,000	207	2007	80	0 17	00	0 17	200	160
DULE NUMBER 1 -0.11 0.53.+ 0.33.+ 1.00 0.44++ 0.80++ 0.50++ -0.11 -0.80+  DULE NUMBER 2 -0.12 -0.18 0.16 0.44++ 1.00 0.40+ 0.80++ 0.50++ -0.11 -0.80+  DULE NUMBER 2 -0.12 -0.18 0.16 0.44++ 1.00 0.40+ 0.80++ 0.80+  DULE NUMBER 2 -0.12 0.67++ 0.32++ 0.80++ 0.40+ 1.00 0.40+ 0.81++ 0.05  DULE NUMBER 2 -0.12 0.67++ 0.32++ 0.80++ 0.40+ 1.00 0.57++ -0.10 -0.80  DULE NEIGHT 1 -0.22 0.67++ 0.32++ 0.80++ 0.40+ 1.00 0.57++ -0.10 -0.80  DULE NEIGHT 2 -0.11 -0.37+ 0.02 0.50++ 0.40+ 1.00 0.57++ 1.00 0.09 0.09  DULE NEIGHT 2 -0.18+ 0.33++ 0.00 0.05 0.010 0.67++ 0.010 0.09  DULE NEIGHT 2 -0.18+ 0.33++ 0.00 0.00 0.57++ 1.00 0.09 0.09  DULE NEIGHT 3 -0.18+ 0.00 0.34++ 0.00 0.00 0.40+ 0.00 0.00 0.00 0.00  DULE NEIGHT 0 -0.18+ 0.00 0.34++ 0.00 0.00 0.40++ 0.00 0.00 0.00 0.00	2	111011	200	+ 0000	00.00	+35+ 00	0.16	.32	-0.02	0.36++	-0.03
DULE WEIGHT 1 -0.22	(±)	œ	-0-11	0.53++	0.3244		74 55	0 0	ar L	200	160
DULE   NEIGHT   -0.212			80	808	80	*	र्ग न्त्र •	o œ	9	LL.U-	-0.16
DULE WEIGHT 1 -0.22	Œ	BER	-0.12	-0.18	Γ.	4	1.0	3	. 00	0.05	60-0-
DULE WEIGHT 2 -0.11 -0.37+ 0.80++ 0.40+ 1.00 0.57++ -0.10 -0  DULE WEIGHT 2 -0.11 -0.37+ 0.02  LODGING 0.71++ 0.18+ 0.36++ -0.11 0.05  LODGING 0.28++ 0.18+ 0.36++ -0.11 0.05  LODGING 0.28++ 0.18+ 0.36++ -0.11 0.05  LODGING 0.28++ 0.19+ 0.00  LODGING 0.28++ 0.19+ 0.00  LODGING 0.28++ 0.19+ 0.00  LITY DE SEED WEIGHT 0.23+ 0.031++ 0.03  LITY DE SEED 0.23+ 0.031++ 0.031  LITY DE SEED 0.24+ 0.040+ 0.051  LITY DE SEED 0.23+ 0.031++ 0.031  LITY DE SEED 0.24+ 0.040+ 0.051  LITY DE SEED 0.24+ 0.040+ 0.051  LITY DE SEED 0.25++ 0.040+ 0.040+ 0.040+ 0.040+ 0.040+ 0.040+ 0.040+ 0.040+ 0.040	G		0 10	40	# (	7	77	7		0 70	07
DULE WEIGHT 2 -0.11 -0.37+ -0.02 0.50++ 0.81++ 0.57++ 1.00 0.09 -0  LANT HEIGHT 0.71++ -0.18+ 0.36++ -0.11 0.05 -0.10 0.09 1.00  LODGING 0.28++ -0.19+ -0.03 -0.16 -0.09 -0.19 -0.01 0.40++ 1.00  LODGING 0.28++ -0.19+ -0.03 -0.16 -0.09 -0.19 -0.01 0.40++ 1.00  SHATTER -0.21++ -0.07 -0.16+ -0.12 0.08 -0.18 0.20 -0.22++ -0.22++ -0.10  ANTS HARVEST 0.60++ -0.81++ -0.49++ 0.00 -0.64++ -0.01 0.40++ 0.56++ 0.05  SEED WEIGHT 0.57++ -0.59++ 0.05 -0.36++ 0.06 0.22 0.21 0.56++ 0.16  LITY DE SEED WEIGHT 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14 0.40 + 0.17  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14 0.40 + 0.17  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ -0.31++ 0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ 0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ 0.31++ 0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ 0.31++ 0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ 0.31++ 0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ 0.31++ 0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ 0.31++ 0.03 -0.23+ 0.27 -0.14  LITY DE SEED 0.23+ 0.31++ 0.31++ 0.33+ 0.27 -0.14  LITY DE SEED 0.25+ 0.31++	a		22.0-	+ / 0 * 0	پي ع	w u	0 7 0	0,		-0.10	-0.19
LODGING 0.771++ -0.18+ 0.36++ -0.11 0.05 -0.10 0.09 1.00			-0.11	-0.37+	0 0	.u o	0 40	2 0 0	1 40	000	800
LODGING 0.71++ -0.18+ 0.36++ -0.11 0.05 -0.10 0.09 1.00 0 0.09 1.00 0 0.09 1.00 0 0.09 1.00 0 0.09 1.00 0 0.09 0 0			0 †	0 †7	0 7		04	0 70	07	0.00	0.0
LODGING 0.28+ -0.19+ -0.03 -0.16 -0.09 -0.19 -0.19 0.40+ 1  160		HEIGHT	0.71++	-0.18+	0 36++	-	0.	_	0.09	1.00	++0+*0
SEED WEIGHT 0.23 + -0.03 + -0.03 + -0.04 + -0.05 + -0.04 + -0.05 + -0.	la de la decembra de	211200	200	200	200	æ '		8	0 17	200	160
SHATTER -0.21++ -0.07 -0.16+ -0.12 0.08 -0.18 0.20 -0.22++ -0  ANTS HARVEST 0.60++ -0.81++ -0.40++ -0.49++ 0.00 -0.64++ -0.01 0.40++ 0  PER PLANT 0.57++ -0.59++ 0.05 -0.36++ 0.02 -0.45++ -0.10 0.22  SEED WEIGHT 0.18+ -0.05 -0.08 0.31++ 0.06 0.22 0.21 0.08 -0  LITY OF SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14 0.40+ 0.17 0		5000	160	160	160	<b>–</b> a		- 0	-0.01	0.40++	1.00
ANTS HARVEST 0.60++ -0.81++ -0.40++ -0.49++ 0.00	S	HATTER	-0.21++	-0.07	-0.16+	<b>`</b>	- 4	٦٥	0-20	- 4	160
ANTS HARVEST 0.60++ -0.81++ -0.40++ -0.49++ 0.00 -0.64++ -0.01 0.40++ 0.  200			160	160	160	~	•	. 00	0 7		• -
PER PLANT 0.57++ -0.59++ 0.05 -0.36++ 0.02 -0.45++ -0.10 0.56++ 0.05 160 160 160 160 0.31++ 0.06 0.22 0.21 0.08 -0.10 0.27 -0.08 0.31++ 0.06 0.22 0.21 0.08 -0.08 0.27 -0.14 0.40+ 0.17 0.11 0.27 -0.14 0.40+ 0.17 0.11 0.20 120 120 120 120 120 120 120 120 120	Ω.	ARVEST	0.60++	-0.81++	++0" #0++	. 49		49°	-0.01	0.40++	
SEED WEIGHT 0.23+ -0.39++ 0.05 -0.36++ 0.02 -0.45++ -0.10 0.56++ 0.0  SEED WEIGHT 0.18+ -0.05 -0.08 0.31++ 0.06 0.22 0.21 0.08 -0.  LITY OF SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14 0.40+ 0.17 0.	0	E 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2007		200	00		00	0 17	200	-
SEED WEIGHT 0.18+ -0.05 -0.08 0.31++ 0.06 0.22 0.21 0.08 -0.1 160 160 170 0.27 -0.23 0.27 0.27 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.1	7	FLANT	160	-	0.05	• 36		4	-0.10	44	0 1
ALITY OF SEED 0.23 + -0.31 ++ -0.03 -0.23 + 0.27 -0.14 0.40 + 0.17 0.17 0.17 0.10 120 120 120 120 120 120 120 120 120 1	SEED	FETCHE	0.18+	200	000	ם מ		m c	0#	-	120
OF SEED 0.23+ -0.31++ -0.03 -0.23+ 0.27 -0.14 0.40+ 0.17 0.			160	160	160	. a	9	7 0	7 .	- P - P	-0.12
120 120 80 40 120 1	0	F SE	0.23+	-0.31++	0	. 2		٠.	† ਹੈ •		0.07
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	OF SEED	2.83	1.58	2.08	2.00	2.33	2.03	2.58	2.42	1.83	2.75	2.25	~ ~ ~	0.39	60 . 34%	*****	- PROB=.01)	0.23+	120	120	20.0-	120	-0.23+	80	0.27	0 7	10.14	+07.0	0.7	0.17	120	0.07	120	00.51	++66-0	120	0.25++	120	60.0-	071	120
	WEIGHT	22.89	17.65	20.83	19.25	19.51	21.01	23.46	22.34	22.11	21,53	21.06	7	1,39	26.48%	***	++ *50	0.18+	160	0.0-	-0.08	160	0.31++	80	90.0	0 70	0.22	0.21	0 7	0.08	160	-0.12	160	- 0	0.01	160	-0.08	120	1.00	000	120
	PLANT	26.14	17.43	10.91	13.45	18.21	15.64	11.64	11.69	10.26	9.98	14.53		2,63	72.40%	7.63	(+ - PROB=.	0.57++	160	160	0.05	160	-0.36++	80	0.02	0 1 7	-0.45++ 80	-0,10	07	++95*0	160	0.19+	120	00.5	0.57++	160	1.00	160	-0.08	071	120
	HARVEST	94.20	127.50	114.45	113.95	78.50	90.30	99.75	97.45	100.95	103.40	102.06	5	7.46	32.67%	21.39	RVATIONS	++09-0	200	++1 8 °C -	++070-0-	200	++6+0-0-	80	00.0	) ; ; ;	++ # 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-0.01	0 77	0.40++	200	0.29++	160	0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	1,00	0.07	0.57++	160	0.01	200	120
	SHATTER	1.00	1.00	1.00	1.00	00.	1.19	1.00	1.00	1.25	1.63	1, 11	ੜ	0.17	62.77%	****	NUMBER OF OBSERV	-0.21++	000	160	-0.16+	160	-0.12	80	80°0	0 0	. O . O . O . O . O . O . O . O . O . O	0.20	0 17	-0.22++	160	-0.07	160	000	-0.13	160	90.0-	170	← () ~ ; C	0 0	120
			2									GRAND MEAN	CONTRIBUTING	TETY MEAN	OF VARIATION	(SN=****)	AND	KG/HA		F LOW CK	MATURITY	4	NUMBER 1		NUMBER 2		WELGHT	WEIGHT 2		HEIGHT		LODGING	68 8 8 5 6	OHA1 LER	HARVEST		PLANT		WEIGHT	0	ا ۵
	OR CROSS	JUPITER	IMPROVED PELICA	DAVIS	FORREST	HAKUEE		HAMPTON 266A	COLUMBUS	WILLIAMS	TRACY		NUMBER EXPERIMENTS CON	ARD ERROR OF	COEFFICIENT	SN	CORRELATIONS	YIELD	5	DAIS 10	DAYS TO	1	NODULE		NODULE		NODULE	NODULE		PLANT					PL.ANTS		PODS PER		100 SEED	DE + 14 11 C	VUALLI

MARKETS   MARK		TABLE 47	COMBINED A	NALYSIS OF	SITES IN Z	ONE III FOR	ISVEX-3				
DAYSTER   1950-12   1950-13   1950	VARIETY OR CROSS		YIELD KG/HA	YS T	AYS T TURIT	ODUL	NODUL	NODUL	NODUL	ANGH	1 (2)
The color of the	BOSSIER			3 0	22.	7		0	77	3.2	
### STATEST   149.49   34.41   115.63   234.75   244.25   2.47   4.50   46.17   115.63   149.49   34.41   115.63   234.75   244.25   2.47   4.50   46.17   149.49   1	DAVIS			6.9	21.	00		۳.	9.	0.3	P 4
The property of the property   14.00, 45   14.00   12.10   1	WILLIAMS			9,3	15.	8		0.	, co	3.0	0
THERE PRETICES NOTE FOLICE NOTE FOR THE NOTE	FORRESH FORRESH		1480.55	1 . 4	23.	7		$\sim$	9 .	6.1	
THEN REPRESENTATION 1.27-22 GL.13 13.19 225.63 349.94 4.03 6.19 33.41 1.1 12.00 325.63 34.94 4.03 6.19 33.41 1.1 12.00 325.63 34.94 4.03 6.19 33.41 1.1 12.00 325.63 34.94 4.03 6.19 33.41 1.1 12.00 325.63 34.94 4.03 6.19 33.41 1.1 12.00 325.63 34.94 4.03 6.19 33.41 1.1 12.00 325.63 34.94 4.03 6.19 33.45 1.1 12.00 325.63 34.94 4.03 6.19 33.45 1.1 12.00 32.64 3.03	0	:	1375.48	40,4	33.	33		2.	000	4.2	
TREED	01	Z		10 3	33	30		å	.5	6.4	
REBERENENTES   CANDER NO.   1039-29   121-30			CV. VS 11	7 . 7	122.06	9 1		0.	٣.	h. 6	
SERRETAINED CONTRIBUTED   1971-19   121-10   222-76   286-15   2.84   41.00   1.00   1.297   31.14   1.207   1.297   31.14   1.297   31.14   1.207   1.297   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14   1.207   31.14	25C MOTHER		1098.07	0 0	20.00	Ü,			. 7	7.4	
REBERTORY CONTRIBUTION   1322.79   52.30   123.45   23.76   286.15   2.83   4.98   4.100   1.00	FIUN ZON			٥	121.00	9		Φ.	. 5	0.1	
The property of the property		RAND MEAN	7	2.3	3,4	32.7	86.1	00	6	1,0	C
LED VARIETY MEANS (*****=KS) ********* 5-126	EXPERIMENTS	ITRIBUTING			コ						)
LED VARIETIN TO NUMBER OF OLSERVATIONS (+ - PROS=05, + - PROS=01)  YIELD FG/HM 1 100		KIETY MEAN	33	-	3.79	5,33	. 42	0.3	9.	3	0
VELLO   KG/MA   NUMBER OF OBSERVATIONS   (+ - PROB=_0.01)	LSD VARIETY MEAN	(*****)	× ~	2.6	2.29	% * * * * * * * * * * * * * * * * * * *	06 *	9.4	* 0	2.7	* *
YEELD KG/HA 1.00 -0.24++ -0.16+ 0.32++ 0.46++ -0.08 0.38++ -0.	CORRELATI		R OF 0	ION	KO.	=.05,	OB=.0				
YS TO FLOWER -0.24++ 1.00 0.89++ 0.49++ 0.40++ 0.56++ 0.38++ 0.49++ 0.091++ 0.	T SE	KG/HA	1 00		-	,	=	(	,	6	1
YS TO FLOMER -0.24++ 1.00 0.89++ 0.43++ 0.40++ 0.56++ 0.38++ 0.91++ 0.91+  YS TO MATURITY -0.144 1.00 0.61++ 1.00 0.61++ 1.00 0.81++ 0.68++ 0.35++ 0.91++ 0.98  ODULE NUMBER 1 0.32++ 0.40++ 0.40++ 1.00 0.81++ 1.00 0.81++ 1.00 0.83++ 0.95++ 0.08  ODULE WEIGHT 1 -0.04  ODULE WEIGHT 1 -0.04  ODULE WEIGHT 2 0.33++ 0.40++ 0.51++ 0.86++ 0.63++ 0.93++ 0.65++ 0.0  ODULE WEIGHT 2 0.33++ 0.40++ 0.51++ 0.86++ 0.63++ 0.68++	4	107 HA	$\rightarrow \infty$		177	100	3 40	0.0	∠	++85.0-	- 4
YS TO MATURITY 144 144 144 144 144 164 164 168 168 168 168 168 168 168 168 168 168	AYS T	FLOWER	$\sim$		1 00	7 7 7	7 7 7	- v	_ ~	44.00	2 0
YS TO MATURITY -0.18+ 0.69++ 1.00 0.61++ 0.55++ 0.56++ 0.35++ 0.89++ 0.00  144			-37	-	777	777	177	, 0	, [	100	
DULE NUMBER 1 0.32** 0.43** 0.43** 0.51** 1.00 0.81** 0.68** 0.77** 0.62** 0.00  DULE NUMBER 2 0.40** 0.51** 0.51** 0.81** 1.00 0.63** 0.93** 0.63** 0.00  DULE WEIGHT 1 -0.04 0.55** 0.51** 0.81** 1.00 0.63** 0.93** 0.63** 0.00  DULE WEIGHT 1 -0.05 0.55** 0.68** 0.68** 0.68** 0.68** 0.67** 0.00  DULE WEIGHT 1 -0.05 0.54** 0.51** 0.84** 0.68** 0.68** 0.68** 0.68** 0.68** 0.68** 0.60  DULE WEIGHT 1 -0.05 0.54** 0.51** 0.51** 0.93** 0.68** 0.6	AYS T	MATURITY	feren	30	1.00	9.	.51	9.		++178-0	0
ODULE NUMBER 1 0.32** 0.61** 1.00 0.81** 0.86** 0.77** 0.62** 0.00  ODULE NUMBER 2 0.40** 0.40** 0.51** 0.68** 0.86** 0.68** 0.95** 0.68** 0.69** 0.6			7	7	4	-3	144	0	10	108	7
ODULE WEIGHT         1444         1444         1444         1444         1444         1444         1444         168         108         172         33         34         0.56++ <th< td=""><td></td><td>ΩS Fe 1</td><td>~ :</td><td>7 .</td><td>.61</td><td>0</td><td>.81</td><td>30</td><td>~</td><td>0.62++</td><td>0.</td></th<>		ΩS Fe 1	~ :	7 .	.61	0	.81	30	~	0.62++	0.
DULE WEIGHT 1 -0.05	B FE COM	2	<b>=</b> :	± :	144	<b>⊅</b> (	177	10	0	108	7
ODULE WEIGHT 1 -0.05	a concerning the conc	N I O E	7 7	77.	144		1.00	• 603	0.0	0.63++	0.1
DULLE WEIGHT 2 0.38++ 0.35++ 0.77++ 0.93++ 0.68++ 1.00 0.60++ 0.00  PLANT HEIGHT -0.38++ 0.35++ 0.77++ 0.93++ 0.68++ 1.00 0.60++ 0.60++ 0.00  PLANT HEIGHT -0.38++ 0.91++ 0.84++ 0.62++ 0.63++ 0.67++ 0.60++ 1.00 0.30  PLANT HEIGHT -0.38++ 0.91++ 0.91++ 0.50++ 0.63++ 0.67++ 0.60++ 1.00 0.30  SHATTER -0.14 0.50 0.00 0.00 0.00 0.00 0.00 0.30  IANTS HAAVEST -0.10 0.45++ 0.46++ 0.38++ 0.25++ 0.32++ 0.48++ 0.29++ 0.10  SEED WEIGHT -0.24+ -0.22+ -0.21+ -0.03 -0.56++ -0.36++ -0.11  SEED WEIGHT -0.31++ 0.24++ 0.03++ 0.03++ -0.11  ALITY OF SEED -0.41++ 0.31++ 0.24++ 0.03  LOUGH -0.02 0.40++ 0.03 -0.11  LOUGH -0.03 0.40++ 0.00  LOUGH -0.00  LOUGH -0.00 0.40++ 0.00  LOUGH -0.00	NODULE		, >	. 72	+ 89	r 00	++69.0	) C	$\supset \mathcal{C}$	108	- 0
DUDLE WEIGHT 2 0.33++ 0.35++ 0.77++ 0.93++ 0.68++ 1.00 0.60++ 0.6			0	100	108	10	108	2		72	۰ ۳
PLANT HEIGHT -0.38++ 0.99++ 0.62++ 0.63++ 0.67++ 0.60++ 1.00 0.3	NODULE		٠,	~ :	.35+	. 7	. 93	.68		0.60++	0
LODGING -0.14 0.50 0.00 0.05 0.63 0.63 0.67 0.67 0.60 0.00 0.30 0.30 0.00 0.00 0.00 0.00	E x * t c	E 22 C 2	) ^  -	200	-	0	108	10	0	72	~
LODGING -0.14 0.00 0.00 0.00 0.00 0.00 0.00 0.00	TNAUZ	1 4 5 7 3 0	٠. د	2.0	9 7	9	.63	.67	9 1	1.00	۳,
SHATTER 0.01 0.46++ 0.50++ 0.55++ 0.32++ 0.24+ 0.40++ 0.00  LANTS HANVEST -0.10 0.45++ 0.42++ 0.58++ 0.25++ 0.26++ 0.29++ 0.10  SEED WRIGHT 0.44++ -0.22+ -0.21+ -0.03 -0.56++ -0.36++ -0.13 0.0  SEED WRIGHT 0.46++ 0.24++ 0.02++ 0.35++ -0.36++ -0.13 0.36++ 0.35++ -0.11 0.20++ 0.10++ 0.31++ 0.31++ 0.35++ -0.11 0.20++ 0.00  SEED WRIGHT 0.44++ 0.24++ 0.03 0.36++ 0.36++ -0.36++ 0.31++ 0.31++ 0.31++ 0.03 0.40++ 0.00  ALITY OF SEED -0.41++ 0.31++ 0.24++ 0.03 -0.11 0.20++ 0.00  100 144 144 144 144 144 144 144 100		LODGING	-				80.0	- 0		144	00
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S PER PLANT 0.44++ -0.24+ -0.22+ -0.21+ -0.03 -0.56++ -0.36++ -0.13 0.0  SEED WRIGHT 0.46++ -0.13 0.36++ 0.35++ -0.36++ -0.11 -0.17+ 0.1  ALITY OF SEED -0.41++ 0.24++ 0.03 -0.11 0.28++ -0.06 0.40++ 0.00  144 144 168 108 108 144 10	PLANTS	AKVES		3 0	.42+	$\sim$	.26+	.59	77 0	0.29++	-
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TY OF SEED -0.41++ 0.31++ 0.03 -0.11 0.28++ 0.06 0.40++ 0.0 144 104 108 108 144 10	SEE	WEIGHT	7		٠.	2	0 35 ++	۳,	- (-	-0 17+	
TY OF SEED -0.41++ 0.31++ 0.24++ 0.03 -0.11 0.28++ -0.06 0.40++ 0.0 180 144 144 144 144 108 144 108			38	77	_	7 7	144	10	10	カカレ	. 0
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QUALITY OF SEED	2,55	2.75	1.90	2.55	2.70	2.85	3.15	2.15	3.10	2.63		0.31	53.10%	****	PROB=.01)	-0.41++	180	0.31++	144	0.24++	カカし	£0.0	10-	144	0.28++	108	90 * 0-	108	+ + > > > > > > > > > > > > > > > > > >	70-03	108	60.0	144	40.0	144	-0.26++	108	++0+*0-	180	1.00	180
100 SEED WEIGHT	15.85	17.28	19.04	16.42	15.43	14.17	16.29	16.53	17.62	16.51		0.97	26.36%	****	PROB=.05, ++ -	0.46++	180	-0.13	1111	0.13	144	4 4 9 5 0	0-35++	144	-0.36++	108	-0-11	108	4/-0-	0-12	108	0.26++	144	60.0-	144	0.39++	108	1.00	180	++0 0 0 0 -	180
PODS PER PLANT	24,14	22.17	21.01	23.19	32.68	20.60	23.91	18.03	17.48	22,58	en	2.03	31,20%	610	(+ - PROB	++1110	108	-0.24+	108	-0.22+	108	+17.0-	00-0-	108	-0.56++	72	-0.36++	72	0.10	00-0	72	-0.08	108	-0.57++	108	1.00	108	0.39++	108	-0.26++	108
PLANTS	167.50	174.00	165.00	174.06	146.06	181.50	166.31	153.63	167.88	166.22		10,35	24.90%	***	RVATIONS	-0.10	144	0.45++	108	0.42++	108	1000+	0.26++	100	++65*0	7.2	0.48++	72	10.29+	0.14	108	-0.02	144	1.00	144	-0.57++	108	60.0-	7	40°0	† † L
SHATTER	ा •	1, 38	1,31	1.25	1.25	1.50	1.19	1.50	1,25	1,34		0.15	44.73%	***	NUMBER OF OBSE	0.01	144	++950	108	++09*0	108	1000+	0.55+	108	0.32++	72	0.24+	72	++0+0	0-08	108	1.00	144	-0.02	144	-0.08	108	0.26++	177	60.0	77 77 1
						Z				RAND MEAN	TRIBUTING	TETY MEAN	OF VARIATION	(SN=****)	AND	KG/HA		FLOWER		MATURITY	1	NUMBER	C REMIN		WEIGHT 1		WEIGHT 2		HELGHI	LODGING		SHATTER		HARVEST		PLANT		WEIGHT		OF SEED	
VARIETY OR CROSS	BOSSIER	DAVIS	WILLIAMS	FORREST		IMPROVED PELICAN	COLUMBUS	TRACY	HAMPTON 266A	e.	NUMBER EXPERIMENTS CON	ARD ERROR OF	COEFFICIENT	5% LSD VARIETY MEANS (	CORRELATIONS	YIELD		DAYS TO		DAYS TO	:	NODALE	EILOON		NODULE		NODULE		PLANT					PLANTS		PODS PER		100 SEED		QUALITY	

MANUAL MATCH	TABLE 48	COMBINED A	NALYSIS OF	SITES IN Z	ONE IV FOR	ISVEX-3				
PARTICIPATE   1960.44   23.05   99.62   19.2.37   235.43   19.05   1	VARIETY OR CROSS		YS T LOWE	AYS	NODUL	NODUL	NODUL	NODUL	PLANT	LODGING
PARTER   P	DAVIS	- 27			34.5		4-	٧.	٦.	1, 10
######################################	COLUMBUS	5	0		27.3		00		7	1, 28
### H95.72 43.78 109.64 120.07 320.70 1.81 4.04 37.69 3.40 4.00 1.81 4.04 37.69 3.40 4.00 1.81 4.00 3.40 3.40 3.40 3.40 3.40 3.40 3.40	FORREST	-	· m		32.2			, 20	0	1.08
HARTON SOAR	JUPITER	1	$\sim$		7.00		30	0	7 .	1.67
MARKEN SORAL MARKEN SAA 1921-18 32-14 198-04 163-15 290-87 1112 2-93 31-27 100898		2	3		30.0		6.	m.	~	1.28
CORRELATIONS AND MERRY   1745-347   31-14   97-34   1745-7   1745-54   1755-54   1745-54   1745-54   1745-54   1745-54   1745-54   1745-54   1745-54   1745-54   1745-54   1745-54   1745-54   1745-54   175		quinter	que-		~		<u> </u>	5.	2.	1.10
CAMEN 63	BOSSIER	3	-		.0	6	6.	7.		1.05
TRECT CHRK 5  CLARK DATE TERECT  CLARK FOR THE REPRESENCE OF TAXIBLE TO THE STATE THAT THAT THE STATE THAT THAT THAT THAT THAT THAT THAT	COBB	3	_		-		$\infty$	÷.	3	1.07
CLARK 63   1564+62   29.03   89.24   117.97   194.45   0.06   2.79   40.51		-	0		9		0.	2.	Ċ.	1.12
STATE   STAT		1584.62	0		5		3	. 7	0	1.43
STANDARD ERROR OF VARIETY HEAM   4.9		#		μ. 9.	9.	34.	0	-	8.6	1.22
## LED VARIETY REAR ALL MAN 93.89 1.0.49 1.0.49 10.31 11.49 10.31 11.47 113.75 75.224 11.14 11.14 11.1	EXPERIMENTS CONTRIBU	~		2	-	-	-	-	`	15
### CORRELATIONS (*****=NS) 26-2.3 (4.16 # 1.03 # 10.05 # 1.04 # 1.17 #	RD ERROR OF	93.89		:5	~	7	τ.	~	17	60.0
YEED   VARLETY NEANS (******NS)   262.02   2.38   4.16   49.66   ********   0.47   *********   4.14	COEFFICIENT OF VARIATION	46.99%		4.03	0	.01	3.7	. 22	( ) J	57.11%
NELLA KG/HA NUMBER OF OBSERVATIONS   (+ - PROB=.05, ++ - PROB=.01)   NELLA KG/HA NUMBER OF OBSERVATIONS   (+ - PROB=.05)   NELLA KG/HA NUMBER OF OBSERVATIONS   NELLA KG/HA NUMBER OF OBSERVATION   NELLA KG/HA	% LSD	0		4.16	9	*	0.4	* *	4.1	0.25
YE PLOWER   1.00   0.17**   0.22**   0.12**   0.12**   0.10**		OF 0	RVATIONS	ವಿಷ	B=.05, ++	11				
NET OF PLOWER   0.17**   1.00   0.49**   0.09**   0.05   0.14**   0.09   0.33***		0 =	0.17++	0.22++	0.12++	++ 67.0	-0.02	70.0	0.38++	40.0-
YS TO MATURITY 0.22+ 0.19++ 0.00	E						777		7 6 6	
Name	TO	760	760	760	+ 0000	0.0°0 560	520	00.00	760	10.01
ODULE NUMBER 1         0.12*+         0.09*+         -0.04         100         550         520         480         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         480         600         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         500         480         600         600         500         500         600         600         600         600         500         600	o To	0.22++	++640	1.00	#0°0-	+60 0	-0.10+	-0.10+	0.35++	0.04
DOULE NUMBER 1 0.12++ 0.09+ -0.04 1.00 0.71++ 0.81++ 0.50++ 0.10+ 0.70+  DOULE NUMBER 2 0.29++ 0.05 0.09+ 0.09+ 0.00 0.00 0.00 0.00 0.00  DOULE NUMBER 2 0.29++ 0.05 0.09+ 0.09+ 0.09+ 0.00+ 0.00 0.049++ 0.50++ 0.20++ 0.00+ 0.00  DOULE NUMBER 2 0.29++ 0.05 0.00 0.00+ 0.00			760	008	009	560	520	0 2 4	800	0000
DDULE NUMBER 2         600	NUMBER		+60.0	-0.04	1.00	0.71++	0.81++	0.50++	0.10+	00.00
ODULE WILLER 2 60.29++ 0.05 + 0.71++ 1.00 0.449++ 0.56++ 0.21++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0			0.09	009	009	560	520	430	009	480
DOULE WEIGHT 1 -0.00 550 560 600 400 400 650 600 650 600 650 650 650 650 650 6	NUMBER		0.05	+60 0	0.71++	1.00	0.49++	0.56++	0.21++	0.08
DULE WEIGHT 1 -0.02  DULE WEIGHT 2 0.07  DULE WEIGHT 2 0.07  DULE WEIGHT 3 0.07  DULE WEIGHT 4.02  DULE WEIGHT 6.33++ 0.10++ 0.50++ 0.58++ 1.00  DULE WEIGHT 7 0.07  D	1	009	560	560	560	600	C 2 +	0.54	909	077
DDULE WEIGHT 2 0.07 0.00 -0.10+ 0.50++ 0.5c++ 0.5d++ 1.0 -0.07 480 480 480 480 480 480 480 480 480 480	E WEIGHT	70.00	520	+0.10+	0.81++	++ F. D = D = D = D = D = D = D = D = D = D	1.00	0.58++	10.04	50.0-
PLANT HEIGHT 0.33++ 0.35++ 0.10+ 0.21++ -0.04 -0.07 1.00 180 180 180 180 180 180 180 180 180 1	E WEIGHT		00.0	-0.10+	0.50++	0.50++	0.58++	1.30	10.0-	-0.11+
PLANT HEIGHT 0.38++ 0.35++ 0.10+ 0.21++ -0.04 -0.07 1.00  RLODGING -0.04 -0.04 0.04 0.00 0.08			084	480	480	480	084	480	480	360
LODGING -0.04 -0.04 0.04 0.00 0.08 520 430 840 840 600 600 520 430 840 0.04 0.04 0.04 0.05 -0.11+ 0.24++ 0.24++ 0.05 600 600 480 440 350 600 350 600 850 600 850 600 850 840 840 840 840 840 860 850 850 850 850 850 850 850 850 850 85			0.33++	0.35++	0.10+	0.21++	-0.04	-0.07	1.00	0.24++
LODGING -0.04 -0.04 0.00 0.00 0.008 -0.05 -0.11+ 0.24++  600			160	900	009	009	270	430	840	600
SHATTER -0.17*+ -0.04 0.11*+ -0.05 0.12*+ -0.15*+ -0.15*+ -0.15*+ -0.17*+ -0.09* 0.11*+ -0.05 0.12*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.15*+ -0.13*+ -0.15*+ -0.13*+ -0.15*+ -0.13*+ -0.15*+ -0.13*+ -0.15*+ -0.13*+ -0.15*+ -0.13*+ -0.15*+ -0.13*+ -0.15*+ -0.13*+ -0.19*+ 0.52*+ 0.21*+ -0.06 0.01*+ -0.01*+ -0.19*+ 0.52*+ 0.21*+ -0.01*+ -0.01*+ -0.02*+ 0.04*+ 0.25*+ 0.04*+ 0.25*+ 0.04*+ 0.25*+ 0.04*+ 0.25*+ 0.04*+ 0.25*+ 0.04*+ 0.25*+ 0.04*+ 0.05*+ 0.04*+ 0.05*+ 0.05*+ 0.05*+ 0.05*+ 0.05*+ 0.05*+ 0.05*+ 0.07*+ 0.07*+ 0.17*+	LODGING		40.0-	#O.0	00.0	0.08	-0.05	-0.11+	0.24++	1.00
LANTS HARVEST 0.31++ 0.09+ 0.19++ 0.19+ 0.15++ 0.19++ 0.15++ 0.19++ 0.15++ 0.19++ 0.19++ 0.15++ 0.19++ 0.19++ 0.15++ 0.19++ 0.10	CE BE 400	-	260	600	0.87	0.44	400	350	600	609
LANTS HARVEST 0.31++ -0.09+ 0.19++ 0.19++ 0.27++ 0.15++ -0.33 0.07+  S.PER PLANT 0.45++ 0.32++ 0.21++ -0.06 -0.01 -0.16++ -0.19++ 0.52++  760 680 720 560 640 600 720 720 720 720 720 720 720 720 720 7	SURITER	_ ^	10.00	++11000	50.01	00.01	+71.0	4 + 5 7 7 4 +	++51.01	90.01
SPER PLANT 0.45+ 0.32+ 0.21++ -0.06 -0.01 -0.16++ -0.19++ 0.52++ 720 680 720 600 600 600 600 600 600 600 600 600 6	Ξ.		4000	19+4	4000	7470	400	200	7200	0000
S PER PLANT 0.45++ 0.32++ 0.21++ -0.06 -0.01 -0.16++ -0.19++ 0.52++ 720 680 720 440 760 760 720 720 720 720 720 720 720 720 720 72	7		760	0000	600	6.00	520	1.0 1.0 1.0 1.0 1.0	) O O O O	0000
SEED WEIGHT 0.32++ -0.07 0.21++ -0.15++ -0.02 480 760 760 760 760 760 760 760 760 760 76	S PER		0.32++	0.21++	-0.06	-0.01	-0-16++	-0.19++	0.57++	* O * O
SEED WEIGHT 0.32++ -0.07 0.21++ -0.02 -0.15++ -0.26++ 0.04  760 720 520 430 750  ALITY OF SEED -0.24++ 0.11++ 0.26++ 0.04 -0.05 0.04 -0.07 -0.17++ 680 640 640 640			089	720	560	260	0 2 1	077	760	009
0F SEED	SEED	~	10.07	0.21++	-0.15++	-0.02	-0.15++	-0.26++	0.04	0.14++
OF SEED -0.24++ 0.11++ 0.26++ 0.04 -0.05 0.04 -0.07 -0.17++ 640 640 640 640 640			720	720	600	600	520	4.3	700	5,60
	0 1		0.11++	0.26++	0.00	\$0.0- 60.4	30.0	0.3	-0.17++	0.02
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QUALITY OF SEED	22.43 22.43 22.43 22.43 22.43 22.43 22.43 24.44 63.55	2.08 0.15 45.10 % 6.41 ProB=.01)		'		- 0 · 0 6 · 0 · 0 6 · 0 · 0 6 · 0 · 0 · 10 · 0 · 10 · 0 · 10 · 0 · 0
100 SEED WEIGHT	000000000000000000000000000000000000000	. 05	0.32++ 760 -0.07 720 0.21++	-0.15++ -0.02 -0.02 -0.15++ 520	-0.26++  #80 0.04 760 0.14+ 560 -0.15++	760 -0.30 -0.00 -0.00 1.00 760 -0.03
PODS PER 10	27.85 25.38 30.51 40.04 23.36 28.80 27.91 27.90	27.99 1.39 43.27% 3.88 (+ - PROB=	0.45++ 760 0.32++ 680	-0.00 -0.00 -0.00 -0.00 -0.00 -0.16+ +480	0.19**  440  0.52**  760  0.03  -0.08	760 1.00 1.00 760 -0.00 680 -0.15+
PLANTS PC	166.71 158.90 159.90 148.39 154.95 156.63 149.24 149.24 145.18	20 152.48 15 21 11 4.40 30% 26.42% ** 12.27 OBSERVATIONS	840 840 -0.09+ 760		'	
SHATTER	mramoomren i	1.20 15 0.11 68.80% *******	-0.17++ 600 -0.04 560	0.03 0.03 0.04 0.04 0.12 0.12	0.23*+ 0.15*+ 0.000 -0.15*+ 0.000 1.000	-0.16 -0.08 -0.08 -0.15 -0.15 -0.03
		GRAND MEAN CONTRIBUTING VARIETY MEAN OF VARIATION S (****=NS)	KG/ FLOW	NUMBER 1 NUMBER 2 NUMBER 2	WEIGHT 2 HEIGHT LODGING .	HARVEST PLANT WEIGHT OF SEED
VARIETY	CKUSS VIS RREST PITER PITER MPTON 266A SSIER SSIER ACY	G STANDER EXPERIMENTS CONSTANDARD ERROR OF VAR 5% LSD VARIETY MEANS ( CORRELATI	Y I E L	DAYS TO NODULE NODULE NODULE	NODULE	PLANTS PODS PER 100 SEED QUALITY

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VARIETY	YIELD KG/HA	DAYS TO FLOWER	DAYS TO	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LODGING
DAVIS	1748.97	.5	2.7	181.38		7.	m	.7	1.25
COBB	1702.84	5.	2.3	154.67	. 0	0 ل	ω,	0.	1,13
	1697,17	- (	2 . 2	319,38		9 .	5.	8	1,38
BOSSIER	1615.03	29.31	88.14	200.00	292.11	1.62	3.46	31.13	1,13
COLUMBUS	1601,45	9	5.3	197, 33		۲ (۲ •	2 2	о •	1 13
WILLIAMS	1588,36	.5	4.3	88.83	9 (	7 3	, a	0 0	
HAMPTON 266A	1566.65	. 7	1.6	216.50	0 0	5		Л	1,17
CALLAND	1470.50	77.	4.0	216.17		1.81	. ~		1, 17
	1440.58	77.	4.6	142.13		0	00	6.	1.21
CLARK 63			5,1	186.75		1.32	_	9.	1.21
TRACY	1366.90	7.	9.	252.67		1.51	S	7.	1.21
GRAND MEAN	1575.06	30.53	87.95	205.25	292.14	1.50	4.01	36.31	1,18
	10	33						-	
STANDARD ERROR OF VARIETY MEAN	104.58	٠,	1.68	6.8	é	~			-
CORFICIENT OF VARIATION 5% LSD VARIETY MEANS (*****=NS)	200°C1	24.14%	11.47%	93.05%	00 H H H H H H H H H H H H H H H H H H	105.35%	75.27%	27.88%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	MARR OF ORSE		0 20		- 1	F F	6 F	3	* * * * * * *
			F & C	•	•				
YIELD KG/HA	1.00	-0-17++	-0.11+	-0.07	0.29++	2	-0.23++	0.29++	0.19++
6	0 87	384	432	28	288	288	240	084	288
DAIS TO FLOWER	++/1.0-	00.1	0.25++	40.00	0.04	0.26++	0.28+	0.06	-0.24++
VETGERAM OF SVEC	364	384	300	288	240	288	240	384	240
2	432	384	00 ° 7	++/- · O-	01.0-	50 00 00 00 10 10	€0.0-1 0.00	50.0	0.06
NODULE NUMBER 1	-0.07	0.14+	-0.17++	1.00	0.65++	0.84+	0.43++	0.24++	0.134
	288	288	288	288	240	288	240	244	240
NODULE NUMBER 2	0.29++	0.04	-0.10	0.65++	1.00	0.46++	0.47++	0.34++	0.28++
1 PHOTER WILLIAM	288	240	240	240	288	240	240	288	192
1	288	288	288	7 8 8 8	++ 0+ ° C	) x x x x	++7c.0	0. L3+	10.04
NODULE WEIGHT 2	-0.23++	0.28++	-0.05	++67.0	++240	0.52++	1.00	0.27++	-0.13
	240	240	240	240	240	240	240	240	192
PLANT HEIGHT	0.29++	90.0	0.03	++h7°0	0 • 34++	0.13+	0.27++	1.00	0.29++
CNEGO	480	384	432	288	288	288	240	084	288
DOI TORON	0000	0.00	0000	+01.0	++57.0	# O • C • C	n ( ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	++67.0	00.1
SHATIER	-0-32++	70.0	0.37++	10.01	192	0 2 0	132	288	887
	887	240	288	240	192	240	192	288	288
PLANTS HARVEST	0.23++	-0.15++	0.15++	0.30++	0.53++	0.18++	-0.20++	-0.13++	0.27++
1 8	000	384	432	288	283	288	0 1 7	480	288
PODS PER PLANT	0.58++	20.0	-0.19++	90.0	0.07	-0.02	0.07	0.41++	0.04
100 Fdg 0 001	384	897	336	24	077	240	192	388	288
0 10	* + + + + + + + + + + + + + + + + + + +	40.0	++ti7*0	++/1-0-	0.18++ 225	-0.19++	-0.18++	-0.25++	00:0
OHALITUV OF SEED	2144	1040	000	7007	607	700	047	305.	0.42
•	288	240	240	240	288	240	7.00	-0.0- -288	192
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SEED QUALITY BIGHT OF SEED	16.52 2.33 15.84 2.96 13.80 2.96 16.26 3.17 16.26 2.38 17.49 3.04 17.45 3.13 16.42 2.25 16.49 2.25	.37 2.67 8 6 .54 0.20 .57% 36.15% .51 0.56 ++ - PKOB=.01)	288 0 . 19 240	0.24** 0.24** 336 0.13 240 0.13 288 240 0.13 288 240 288 288 288 288 288 288 288 288 288 28	0.01 240 2000 2000 1920 1920 1920	+ + + + + + + + + + + + + + + + + + + +
PER 100 SE LANT WEIG	23.10 16. 28.02 15. 25.70 13. 23.71 16. 20.24 16. 20.024 17. 19.89 16. 19.68 16.	23.77 16. 1.77 0. 42.21% 18. 4.99 1.	: :	<b>+</b>	<u>.</u>	384 384 384 384 384 281 384 281 384 281 384 281 384 384 384 384 384 384 384 384 384 384
PLANTS POUS ARVEST PI	20.90 23.90 23.90 23.90 23.90 20.90	N NOWNCO	ı		-0.20*+ -0.40 -0.13*+ -0.27*+ -0.36*+ -0.36*+	1
SHATTER HA	207	1.20 143.2 60.20 2.5 80.65% 11.1 ******* 7.0	-0.32++ 283 0.04 240	0.0288 0.0288 0.192 0.192 240	0.11 0.00 1.92 1.00 1.00 1.00 1.00	0.35** 0.03 0.03 288 0.28 0.27 240 0.28**
0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0		D MEAN BUTING Y MEAN IATION ***=NS)	KG/HA FLOWER	ALUELL UMBER UMBER EIGHT	IGHT HEIG ODGI HATT	HARVEST PLANT WEIGHT OF SEED
VARIETY OR CROSS	COBB JUPITER JUPITER FORREST BOSSIER COLUMBUS WILLIAMS HAMPTON 266A CALLAND WODWORTH CLARK 63	GRAN NUMBER EXPERIMENTS CONTRI STANDARD ERROR OF VARIET COEFFICIENT OF VAR 5% LSD VARIETY MEANS (***	YIELD DAYS TO	NODUL	PLANT	PODS PER 100 SEED QUALITY

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VARIETI OR CROSS	YIELD KG/HA	DAYS TO FLOWER	DAYS TO	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LODGING
JUPITER	2754.24	68.94				7 7 2		u .	, ,
DAVIS	2747.10	33.75		$\sim$		0.97		80.01	1.83
COLUMBUS	2631.72	28.71		~		0.74			200
FORREST	2603.44	31.57		0.1		0.64	0		1,00
HARDEE	2574.74	36.61		00		1.21	-	6.	1.17
LAPROVED PELICAN	- 1	41.86		~		0.98	٠,	0	2, 13
HABETON ZODA	2452.54	32.71				1.04	0	6.	1.04
BOSSTED	- :	28.15		$\sim$		0.74	.5	6.	1.42
TENDA TEN	2190.82	32.57		~ 1		0.74	. 7	. 5	1.04
COBB	1475.71	30.00		N1 -	_	0.80	س ا	5.	1.00
CIARK 63	10501	00000		-		0.56		7	1.04
KOODWORTH	1939.47	28.43	97.04	108.80	146.40	0.72	2.13	47.12	1.63
GRAND MEAN	2360.54	33.29	102.85	116.84	221.72	0.89	2.83	49.93	1,32
CINDELEGIONIO					2	Þ	7	7	
INDARD ERROR OF VARIETY MEAN	198.26	9.	သွေး	62	82	0.2	. 5	3.97	. 2
5% LSD VARIETY MEANS (****=NS)	558.93	4.65	7.96	0 -12-	120°91% *******	90°00°00°00°00°00°00°00°00°00°00°00°00°0	1.60	42.03% 11.18	72.61%
CORRELATIONS AND NUR	MBER OF OBSE	VATIONS	(+ - PRO	B=.05, ++ -	PROB=.01)				
YIELD KG/HA	1.00	++0#00	0.17++	0.44++	0 . 38++	++97.0	0.56+	1044	1644
	364	364	364	260	260	208	208	364	310
DAYS TO FLOWER	++0+*0	1.00	0.63++	++9500	++ + + + 0	0.62++	0.57++	0.51++	0.02
; (E	364	36	364	260	260	208	208	364	312
DAYS TO MATURITY	0.1/++	0.63++	1.00	0.30++	0.38++	0.11	0.20++	0.33++	0.04
NODULE NUMBER 1	++ 11 10 0	100	304	1 00	77++	208	208	364	312
	760	260	260	260	260	+ 0000	++70.0	00.0-	-0.23++
NODULE NUMBER 2	0.38++	++## 0	0.38++	0.77++	1.00	0.56++	++49*0	0.15+	20.0-
FOOTER BILLION	260	260	260	260	260	208	208	260	208
T T T T T T T T T T T T T T T T T T T	2.08	208	0.13	++0/-0	0.56++	1.00	0.65++	-0.02	-0.18+
NODULE WEIGHT 2	0.55++	0.57++	0.20++	0.62++	0.64++	0.65+	1,000	208	156
5 2 2 2	208	208	208	208	208	208	208	208	156
FLANT AELGHI	++61 *0	0.51++	0.33++	00.00	0.15+	-0.02	-0.00	1.00	0.39++
ON 1000.1	304	304	364	260	260	208	208	364	312
	312	3.12	312	8000	60.01	+0° 18+	++ 77 0 -	4+65.0	1.00
SHATTER	0.17++	0.10	0.17++	0.04	0.07	0.12	0.21++	512	312
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312	312	312	208	208	156	156	312	312
FLANIS GARVESI	364	0.03	0. T4++	0.12+	0.15+	-0.24++	-0.14+	60.0	-
PODS PER PLANT	0.28++	304	354	097	760	208	208	364	312
	364	304	364	260	260	0.0	0.11	++67.0	0.24++
100 SEED WEIGHE	0.03	-0.31++	-0.01	-0.14+	-0.03	-0.31++	-0.30++	-0.18++	312
	364	354	364	260	250	208	208	364	- 6
CORLLI OF SEED	-0.41++ 344	-0.11+	0.12+	0.01	#0°0-	-0.03	+0.0-	++01.0-	0.08
	364	364	364	260	260	20.8	200	360	

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SITES IN ZONE IV	QUALITY OF SEED	3.00	2.64	2.54	2.49	2.86	2.82	3.11	2.39	3.21	3.07	æ	2.82	t t	2.88	Ç- ₹0	55.11%	<b>经</b>	. PROB=.01)	-0.41++	364	-0.11+	364	0.12+	104	260	+0.0-	260	50.0-		208			213	-0.16++	312	-0.02	364	-0. 38 ++ 364	0.05	364	364	
AMERICAN	100 SEED WEIGHT	19,94	18.37	18.24	16.78	18.22	14.77	22.34	19,11	19.50	19.49	19.79	17.19	1	18.55	0.70	20.06%	1.96	- ++ *50*=	0.03	364	-0.31++	304	-0.01	104	260	-0.03	260	-0.01+	-0.30++	208	-0.18++	364	212	-0.03	312	0.14++	364	-0 · 23 + +	1.00	364	364	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CENT. 8 SJ.	PODS PER PLANT	38,83	34.55	32.41	38.30	43.86	48.55	31.55	26.94	33.22	26.61	28.65	32.85 29.18	7	34.21	2.56	39.47%	7.21	(+ - PROB=.05,	0.28++	364	0.36++	304	0.18++	1 20 0	00.0	-0.05	260	70.0	0.11	208	++64.0	304	312	0.09	312	++0+0-	304	364	-0.23++	364	364	* * * * * * * * * * * * * * * * * * * *
NALYSIS OF	PLANTS HARVEST	168.61	186.25	178,71	117.29	140.46	171.96	175.71	180.43	165.50	183.79	163.63	160.07		12.491	47.6	23.89%	26.06	RVATIONS	0.17++	364	0.03	354	++++	104	260	0.15+	260	++#7*0-	-0.14+	208	50.0	364	-0.14+	-0.05	312	00.5	304	364	0.14++	364	364	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COMBINED ANALYSIS	SHATTER	1.00	1,33	1.00	1.03	1, 17	1.00	7.1	3°0°	1.08	1.2.1	1.08	1.04	4	1.	0, 15	63.00%	***	AND NUMBER OF OBSERVATIONS	0.17++	312	0.10	312	0.17++	215	208	0.07	208	7 1 2	0.21++	156	-0.13+	312	312	1.00	312	-0.05	315	312	-0.03	312	312	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
TABLE 50							AN							3	GRAND SEAN	VARIETY MEAN	OF VARIATION	(SNH****)	IONS AND NUR	KG/HA		FLOWER		MATURITY	MH MRFP 1		NUMBER 2		WELGHT .	WEIGHT 2		HEIGHT	57 F C 2 C 1	LODGING	SHATTEK		HARVEST		1. I. A. V. L.	WEIGHT	0	n D	
	VARIETY OR CROSS	JUPITER	DAVIS	COLUMBUS	FORREST	HAKDEE	IMPROVED PELICAN	HAMPTON 266A	WILLIAMS	BOSSIER	FRACY	COBB	CLAKK 55 400DWORTH		OF SENSELESSONS BESIDEN	KD ERPOR OF	COEFFICIENT	5% LSD VARIETY MEANS	CORRELATIONS	YIELD		DAYS TO		DAYS TO	a Incov	1000	BILLON		N TO CON	STUCON		PLANT					PLANTS	0 C C C	7	100 SEED	DET TANCO	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	

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MANY SEASON   199251   19925	VARIETY OR CROSS		YIELD KG/HA	AYS T	AYS TURI	NODUL	NODUL	NODUL	NO DU L	LAN	LODGING
Fig. 10   Fig.	DAVIS		2325.19	44.63	-	0. 0.	3	Ç	-	-	u 3
STATE   STAT	BOSSIER		2190.80	41.04	9	38.6	, ft.	) (	+ 4		1.40
MANAGE SERVICE OF VARIETY RANGE OF VAR	FORREST		2189.25	35.00	-	87.0	) ^3		C -	· ·	1 15
CORNETION COMPANY   1992-74   1992-74   1992-75   1992	HARDEE		2169.59	48.21		13,1	S	C		0	. r.
1999-14   1949	LON		2118.02	39.46	0	06.2	3	)		1.7	1,30
THE EXPERIENCE   1940-14	COSB		1998.74	38.46	٠ د	71.7	~	0.	~	0.)	1.23
The composition of the composi	COPH IER		1940.81	33.86		23.8	$\sim$	0.	$\sim$	403	1.90
THERE REPRETATIONS AND MEAN 195-75 15-10 10 10 10 10 10 10 10 10 10 10 10 10 1			1071.04	31.41	7 .	01.3	٠ ح	2	70	6.3	1.00
THERMAND PRICE AND NUMBER OF OBSERVATIONS (+ - PROBLE NOT)	2000		1820.04	32.34	90	40.6	0	0	$\Rightarrow$	2.1	1.10
THERE REPRESS CONFIDENCE   1535-76   194-12	CLARK 5.3		1607 57	33.35	- (	12.3	0	0	-	6.1	1,35
SER EXPERIENCE CONTRIBUTION   1534.01   15.04   10.1	TMDROVED DELLO	2	1550 70	31.18	7 -	53.0	201	0		6.5	1.10
ARBRENCE CONTENSION NEAR   1935-13   1947   1948   1945-14   1948   19	WOODWORTH		1538.01	37.04	- a	NG	- (	00		6.1	1.60
The experiments						)	J	>	-	0	رد. ا ا
VARIENT REPORT   VARIENT	SENSE CAGAS	RAND MEAN	1935.13		3.8	5.7		0	~	ં	$\sim$
LED VARIETY FEATURE CONTRIBUTIONS (* - PROBE-JUS, ** - PROBE-J	ARD FRENCH OF	TETENTING TETE	167 07		(						
VIELD   VARIETY HEANS (********)   473.26   5.0.20   4.0.10   4.		UADTATION	10.00	0	4.33	0.68	3,95	000	0.22	. 17	. 21
ELATIONS AND NUMBER OF OBSERVATIONS (+ - PROB=.05, ++ - PROB=.01)  FELD KG/HA 1.00 0.11* 0.22*+ 0.37*+ 0.05	LSD	(SN=****	473.26		2.22	77°57	**** ***	000	4.54 U.62	900	0 * ×
Stock   Stoc	CORRELATI	ONS AND NUM	OF O	O	- PRO	=.05, +	OB=.0				
Stocker   Stoc	YIELD	KG/HA	1.00	0.11+	0.32++	. 37	0.36	<u>ں</u>		0.29++	0.03
STO RLOWER  STO MATURITY  STO			364	364	364	104	150		5.2	3.64	2.0
S TO MATURITY	S	FLOWER	0.11+	1.00	11+	30	-0.36++	0	. 37		10.54
DULE NUMBER 1 0.37** -0.36** -0.16 1.00 0.72** 0.00 0.36** 0.54** 0.54** 0.54** 0.55** 0.16 0.58** 0.58** 0.56** 0	£.	MATHRITAN	364	364	364	104	156		2		26
DULE NUMBER 1         0.37+         -0.36+         -0.16         1.00         0.72+         0.00         0.72+         0.00         0.72+         0.00         0.72+         0.00         0.72+         0.00         0.72+         0.00         0.16         0.	0	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	364	364	3.6(1	0.0	++67.0-	਼	3.	. 64 	44 1
DULE WINDER 2         104         <	ODULE	œ	0.37++	-0-30++	-0.16	1.00	0.72++	0	٠ 	٩. ۳	n ~
DULE WEIGHT 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	r	0	104	104	104	104	104		0	104	104
DULE WEIGHT         0.00	73	ri zi	0.00	.36+	-0.29++	0.72++	1.00	0.	उं≉	138	10
DULE WEIGHT 2 0.54++ 0.37++ 0.54++ 0.00 0.44++ 0.00 1.00 0.46++ 0.00 0.46++ 0.00 0.44+  LANT HEIGHT 0.59++ 0.50++ 0.64++ 0.16 0.44++ 0.00 0.46++ 1.00 0.46++ 0.00 0.39+  LODGING 0.02 0.59++ 0.50++ 0.58++ 0.46++ 0.00 0.46++ 1.00 0.39++ 1.00 0.39++ 1.00 0.39++ 1.00 0.39++ 1.00 0.39++ 1.00 0.39++ 0.58++ 0.46++ 0.00 0.00 0.39++ 1.00 0.39++ 0.58++ 0.58++ 0.58++ 0.00 0.00 0.39++ 0.59++ 0.58  ANTS HARVEST 0.09 0.04 0.014 0.014 0.00 0.37++ 0.52++ 0.16  SEED WEIGHT 0.09 0.11 0.18++ 0.62++ 0.00+ 0.00 0.37++ 0.22++ 0.21++ 0.16  LITY OF SEED 0.00 0.10 0.30++ 0.00+ 0.00 0.45++ 0.21++ 0.21++ 0.20+  LITY OF SEED 0.00 0.10 0.30++ 0.00+ 0.00 0.15++ 0.22++ 0.21++ 0.20+  LITY OF SEED 0.00 0.10 0.30++ 0.00+ 0.00 0.15++ 0.22++ 0.20+  LODGING 0.20+ 0.30++ 0.30++ 0.00+ 0.00 0.15++ 0.22++ 0.20+  LODGING 0.30++ 0.30++ 0.00+ 0.00+ 0.00 0.15++ 0.22++ 0.20+  LODGING 0.30++ 0.30++ 0.00++ 0.00+ 0.00 0.15++ 0.20+  LODGING 0.30++ 0.30++ 0.00++ 0.00+  LODGING 0.30++ 0.30++ 0.00++ 0.00+  LODGING 0.40++ 0.40++ 0.40++ 0.40++ 0.40++ 0.40++ 0.40++ 0.20++  LODGING 0.30++ 0.30++ 0.30++ 0.00+  LODGING 0.40++ 0.40++ 0.40++ 0.40++ 0.40++  LITY OF SEED 0.00 0.11+ 0.20++ 0.30++ 0.00+  LODGING 0.40++ 0.40++ 0.40+++ 0.40+++ 0.40+++  LITY OF SEED 0.00 0.11++ 0.20+++  LODGING 0.40+++ 0.40+++  LODGING 0.40+++ 0.40+++  LODGING 0.40+++ 0.40+++  LODGING 0.40+++ 0.40+++  LODGING 0.40++++  LODGING 0.40++++  LODGING 0.40+++++  LODGING 0.40+++++++++++++++++++++++++++++++++++	臼		00.00	20	00.00	00-0	00.0	(	00	5	104
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ANTS HARVEST -0.09 0.04 -0.17** -0.54** 0.00 0.00 0.29** 0.58  ANTS HARVEST -0.09 0.04 -0.17** -0.64** -0.17** 0.00 0.04 -0.22** -0.21** 0.04 0.05 0.04 0.22** 0.22** 0.16** 0.50 0.04 0.07 0.04 0.07 0.04 0.00 0.37** 0.04 0.05** 0.16** 0.16** 0.10** 0.00 0.37** 0.62** 0.16** 0.16** 0.00 0.37** 0.62** 0.16** 0.16** 0.00 0.37** 0.62** 0.16** 0.16** 0.00 0.45** 0.21** 0.47** 0.22** 0.22** 0.30** 0.00 0.00 0.45** 0.22** 0.22** 0.30** 0.00 0.00 0.00 0.15** 0.22** 0.22** 0.22** 0.30** 0.00 0.00 0.00 0.15** 0.22** 0.22** 0.22** 0.30** 0.00 0.00 0.00 0.15** 0.22** 0.22** 0.22** 0.30** 0.00 0.00 0.00 0.15** 0.22**		CHAMMED	260	260			J 1	4		200	26
ANTS HARVEST -0.09 0.04 -0.17*+ -0.64*+ -0.17*+ 0.00 0.04 -0.22*+ -0.21*  PER PLANT 0.50++ 0.36++ 0.62*+ 0.38*+ 0.04 0.00 0.37*+ 0.62*+ 0.16*  SEED WEIGHT 0.09 0.11 0.18*+ -0.09* 0.00 0.45*+ -0.21*+ 0.04  LITY OF SEED -0.07 0.22*+ 0.30*+ -0.09* -0.06  260 260 260 260 260 260 260 260 260 260		With the same	312	312	-	+ + = 0	, U ,	•	0.	0.29++	. 20
PER PLANT 0.50++ 0.36++ 0.62++ 0.38++ 0.04 0.00 0.37++ 0.62++ 0.16  SEED WEIGHT 0.09 0.11 0.18++ -0.62++ -0.09 0.00 0.45++ -0.21++ 0.47  LITY OF SEED -0.07 0.22++ 0.36++ -0.09 -0.06 0.00 0.15+ 0.22  260 260 260 260 104 104 0.20	PLANTS	HARVEST	60.0-	0	+	+ 17 9	. 17	ر •	n 0	312	26
FER PLANT 0.50++ 0.36++ 0.62++ 0.38++ 0.04 0.00 0.37++ 0.62++ 0.16  SEED WEIGHT 0.09 0.11 0.18++ -0.62++ -0.09 0.00 0.45++ -0.21++ 0.47  312 312 312 104 156 0.00 0.45++ -0.21++ 0.22  LITY OF SEED -0.07 0.30++ -0.09 -0.06 0.60 0.15+ 0.22  260 260 260 260 260 260 260 260 260 268	İ		364	364	364	10	$\overline{}$		2	364	26
SEED WEIGHT 0.09 0.11 0.18++ -0.62++ -0.09 0.00 0.45++ -0.21++ 0.47  312 312 312 312 312 312 312 312 312 312	Ci Ci	PLANT	364	0.36++	+	.38+	0.5	0.	٠ س	0.62++	-
OF SEED     -0.07     0.22++     0.30++     -0.09     -0.06     0.00     0.00     0.15+     0.22-       260     260     260     260     260     260     260     260     260     260     260	SEE	WEIGHT	60.0	0.11	+ 00	104	_	C	ಬ =	364	260
<b>OF SEED</b> -0.07 0.22++ 0.30++ -0.09 -0.06 0.00 0.15+ 0.22 250 250 260 260 260 260 260 20			312	312	1	104	9 (~~	•	٠ ا	312	200
260 260 104 104 0 0 260 20	QUALITY	OF SEED	-0.07	0.22++	0.30++	0.		0	0	0.15+	2
			260	260	9	104	104	0	0	260	0

PLANTS PODS PER 100 SEED QUALLITY SHATTER HARVEST PLANT WEIGHT OF SEED	173.36 35.53	153.18 39.44	163.96 36.63	149.18 52.19	162.82 36.05	146.39 41.76	163.36 48.52	171.57 27.94	164.54 28.45	161 32 36 67	148.96 50.01	145.50 42.03	1.13 163.93 24.69 14.35	1.26 161.39 36.70 14.0		0.16 9.66 5.95	N 60.28% 31.69% 85.72% 25.	######################################	NUMBER OF OBSERVATIONS (+ - PRO3=.05, ++ - 2	A -0.03 -0.09 0.50++ 0.0	364 364 31	0.35++ 0.64 0.36++	312 364 364	0.34++ -0.17++ 0.62++	364 364	++85.0 ++40.0-	104 +21-0- +484-0-	156 156 156	00.0	0 0 0	0.00 0.04 0.37++	52 52 52	I 0.29++ -0.22++ 0.62++ -0.21++	0.58++ -0.11 0.16+	260 260 260	1.00 -0.07 0.10	312 312	310 25% 25++	0.10 -0.52++ 1.00	312 364 364 312	0.11 0.14+ -0.21++	260 312 312	0.16+
VARIETY OR CROSS	DAVIS	BOSSIER	FORREST	HARDEE	HAMPTON 266A	COBB	JUPITER	WILLIAMS	COLUMBUS	TRACY	CLARK 63	100	tret	GRAND MEAN	CONTRIBU	RD ERROR OF	FFICIENT	**) SN	CORRELATIONS AND	YIELD KG/HA		DAYS TO PLOWER		DAYS TO MATURITY	0 0 0 0 0	NODULE NURBER	NODULE NUMBER 2		NODULE WEIGHT 1		NODULE HEIGHT 2		PLANT HEIGHT	LODGING		SHATTER	:	FLANTS HARVEST	PODS PER PLANT		100 SEED WEIGHT		QUALITY OF SEED

TABLE 52 COMBIGED ANALYSIS OF SLIES IN ZONE X FOR ISVEN-3

VARIETY OR CROSS	YIELU KG/dA	DAYS TO FLUMER	DAYS TO	NODULE NUMBER 1	NOBULE NUMBER 2	ACDULS ACIGHT 1	NODULE REIGHT 2	PLANT HETCHT	TODGCT.
MILLIAMS	2005.19	33 50 50 50	115.47	144.00	0.50 3x	3	0		
CALLAND	2369.71	40.14	121.83	106.57	201 20	0 to 0	5	00 . 2 . 2 . 3 . 3	1.00
AMSOY /1		37.13	111.69	141.54	174.54	0.54	0. 15	79.58	76.5
MOODED BY	22020	30.00	108,19	151.61	214.92	0.67	1.36	75.29	1.84
	711 15	£0.74	112.41	155. 86 155. 86	161.29	0.79	1,80	74.36	1.84
COLUMBUS		50 - US	177.59	120.04	169.67 267 79	0 ^	1. 30.5	77.31	1.84
CORSOY		36.75	110.06	141.75	214.58	1 3 5 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	7.43	71.00	מי לה מי לה מי א
WELLS	2102.91	36.47	108.97	137.64	146. 23	* 0	77.01	1	÷ ,
HODGSON	2073.61	35.09	101.13	147.71	177.63		ಶ್ ಚ ಎಂ 	67.47	1.50
SWIFT	1518.10	35.34	97.63	128.00	166.29		1 5.7	67.61	7 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
ALTONA	1531.51	33.34	88.47	126.06	162.21	0.71		50.37	2.03
	2106 60	9		0					
NUMBER EXPERIMENTS CONTRIBUTING	7	50.30 U X	10.00	150.00	198.40	~ ກ ນ • ວ	1.0	77.30	1.83
RD ERROR OF	132, 91	1.34	7.57	17 50	0 ~ 17	- 0 +	P :	ر با با ت	m •
COEFFICIENT	35.03%	2,0.33%	13.25%	61.732	7.6.21	2 - 22	2.75	7.7.7	0,21
5% LSD VARIETY MEANS (****=NS)	374.30	3.90	7.23	49.41	69.10	0.27	0.07	7.73	*******
CORRELATIONS AND NUMBER	MBER OF OBSE	RVATICNS	(+ - P.(O)	++ ++++	- vEuB=.01)				
YIELD KG/HA	1.00	1.27++	0.55++	++0%**	3.47	# # # #	4403.0	787.0	000
	304	384	384	336	2002	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	20.00	7.0	**************************************
DAYS TO FLOWER	0.27++	1.00	0.74++	0.26+	0.13+	0.38++	0.41++	0.59++	#0°0
0 0 0 0 0 0 0 0 0	304	5,64	384	336	238	436	Z48	384	364
DAIS TO MATURITY	*+ CC * D	4++	1.00	0.35++	6.04	0.55++	0.46++	0.30++	0.31++
NOOM FLEE	388	304	384	336	288	330	207	304	384
E NOBEER	** 07 ° 0	4 + 4 Z = 0 3 2 Z	4+66,00	1.00	++/+	0.45++	0.28++	0.43++	0.35++
NODULE NUMBER 2	20.0	0.1 *+	0000	130	1 1 2 CCC	336	1 01 1 02 1 02 1 03 1 03 1 03 1 03 1 03 1 03 1 03 1 03	130	336
	238	. X	0 00	* T T T T T T T T T T T T T T T T T T T	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	+ 7 I V	++/ 5 - 0	++/L*0	0.22++
NODULE REIGHT 1	4+80.0	4+36+7	0.55++	++5000	. 12+		022	230 ++00-0	788
1	336	330	330	336	283	336	288	330	336
Z THOLEW ALCHI'S	0.62++	++[7:0	++95.0	0.28++	0.47++	0.63++	1.00	0.50++	0.45++
PLANT HETGHT	200	288	288		286	283	7.85	288	288
	334	38.4	3000		0. 1/++ Jass	0.55+ 325	0.54++ 320	00.0	0.43++
LODGING	0.39++	U.Ü.	0.31++		0.22++	++## ()	++57-0	+ + C D - C D - + +	100
	70	384	384	336	288	336	238	: : ::::::::::::::::::::::::::::::::::	384
SHAITER		90.0-	-0-14++	00.00	00.0	00.0	0.00	-0.06	-0.08
٤	00 1	334	384	336	263	336	208	384	384
FLANIS HARVESI	C. 23++	+71.0-	90.0	-0.12+	00.0	0.02	0.20++	0.07	0.15++
PODS PER PLANI	0.71++	30+	++20°	0.350	23G	336	238	384	384
	~~	336	336	2000	70.0	* * * * * * * * * * * * * * * * * * *	** 00.0	4450	00
100 SEED WEIGHT	$\sim$	-0.25++	0.03	-0-02	0.13+	0000	266	0 1741	0.35
		384	384	336	2.33	386	* 20 70 ° C	384	384
QUALITY OF SEED	-0.62++	-0.03	-0-20++	-0.03	0.11	-0.46++	++/2-1)-	++ # 20 -	-0.15++
	3334	184	384	336	288	336	268	\$0.4	384
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UVALITY OF SEED		2 13		00.0	2.00	2.18	3.25	2.50	2.84	- 0	2.63	323			2.90	20	0.19	37 . 24%	C • 54	PFOB=.01)	-0.62++	384	-0.03	384	++ 0.2.0-	384	336	0.11	283	-( • 40++	336	-0.2/++	200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0.15++	384	-0.11+	3.44	-0.03	384	** ** * * * * * * * * * * * * * * * *	0,00 0,00 0,00	384	1.00	384
100 SEED QUA	17 24		17 23	17.52	10.03	12.17	17.03	15.23	15,24	15.17	15.44	14,45	15.69	4	16.03	ဆ	0.45	15.82%	1.26	- ++	0.32++	384	+0.25++	13.84 10.00	20.0	354	98.~	0.13+	288	50.0-	130	0.20++	0.17++		0.16++	\$84	-v. 0a	384	0.57++	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	* + O = O = O = O = O = O = O = O = O = O	1.00	3.0.c.	-0.03	30 tt
PODS PER 1	6 2 0 0	21 443	25 44	10.00	06.12	31.33	75.40	32.58	28.40	25,31	28.78	22, 31	18.70	:	27.30	7	2.47	47.88%	6.9/	(+ - PROB=	0.71++	336	0.31++	336	++++	336	288	0.02	288	0.47++	288	0.50++	0-6 *+		0.10	336	0.02	336	0.02	446	7 7 7	0.10++	330	-0.54++	330
PLANTS HARVEST	U		150.00	160.07	102.20	## # # # # # # # # # # # # # # # # # #	100.34	150.97	166.84	160.84	153,25	153.78	154.19	i.	155,66	x	5.74	20.84%	16.15	OBSERVATIONS	0.23++	384	-0.12+	725	0 : 0	354	330	0.00	268	70.0		0.2d+	0.02	33.00	0.15++	384	0.02	384	1.00	384	70.0	0.57++	304	- U • J¤	384
SHATTER	1 00	000			000	20.1	00.	1. JC	1.00	1.00	1.00	1,13	1.00	(	1.01	33	0.02	9.60%	0.00	OF	0.00	384	90.0-	384	1 0 0	0°°0	330	00.00	789	00.0	0 5 F	0.00	90-0-	707	-0.08	384	1.00	384	0.02	384	70.0	-0°03	384	-0-11+	384
														1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GRAND MEAN	CONTRIBUTING	VARIETY MEAN	OF VARIATION	(SN=****)	ONS AND NUMBER	KG/HA		FLOWER	VATUREAM	ITUOTWI	NUMBER 1		NUMBER 2		WEIGHT 1		MEIGHT Z	REIGHT	2	LODGING		SHATTER		HARVEST	EN CLO	FLANI	WEIGHT		OF SEED	
VARIETY OR CROSS	0 2 4 4 4 4 5	Chilbing		ABSOL T	E 0 0	ELECTRON I	BEESON	COLUMBUS	CORSOY	WELLS	HODGSON	SWIFT	ALTONA	4				COEFFICIENT		CORRELATIONS	YIELD		DAYS TO	C E	7	NODULE		NODULE		NODULE		NODULE	TNA.19						PLANTS	0 C C C C C C C C C C C C C C C C C C C	0 12	100 SEED		QUALITY	

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VEAR 1975

TABLE

CCUNTRY - ALGERIA ELEVATION - 289 M

DEG. 14 MIN. - 289 M - 2 DEG-~ LCNGITUDE

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SITE - KHEMIS-MILIANA LATITUDE - 36 DEG. 15 MIN.

- AFRICA

REGION

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SEPTEMBER,

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HARVESTED

K 150.0 CLAY 30% P 100.0, CCOFERATOR - I.D.C.I.
DATE PLANTED - MAY 19, 1975
SOIL TYPE - SAND 15%, SILT 19%, CL.
FRRILLIZER USED (KG/HA) - N 30.0, AMOUNT OF MOISTURE - 986 RM

E CP IRFIGATIONS - 29 (933 NUMBER

0.00% LODGING 1.00 18.543 19.80 PLANT 34.50 880.60 886.60 77.00 77.00 99.75 99.25 99.25 99.25 99.25 99.25 99.25 99.25 73, 15 0.74++ 0.74++ 0.65++ 1.00 0.30+ 0.20 1.06 0.000 0.000 0.000 0.000 0.000 0.000 NODULE WEIGHT 2 0.58 0.03 0.03 1.00 1.00 0.03 0.00 NODULE WEIGHT 1 1.03 0.21 40.35% 0.59 15.63 18.73 32.51% 53.72 + + 00000 NOCULE MBER 2 238.00 124.00 111.20 97.00 97.00 156.25 129.25 109.25 1116.75 123.50 98.25 98.25 NUMBER PROF-.05 91.10 12.51 27.46% 35.75 NODULE NUMBER 1 114.50 109.75 36.00 70.00 94.25 103.75 75.75 82.00 34.75 82.00 -0.15 -0.15 -0.21 -0.21 -0.00 123.90 0.54 C.87% DAYS TO 121.00 120.50 123.50 120.00 120.00 120.00 120.00 120.00 120.00 O 0.26+ 0.24 1.00 0.64++ 57.05 2.64 9.25% 7.54 25 DAYS TO FLOWER 76.00 655.00 749.20 749.20 755.00 455.00 660.00 660.00 883.75 483.75 483.75 1276.78 159.00 24.91% 454.44 2374, 22 1809, 95 1691, 59 1519, 05 1519, 05 1507, 80 1507, 80 1507, 80 1507, 80 1507, 80 1507, 80 1507, 80 1507, 80 1750, 50 873, 51 873, 51 873, 55 873, 55 874, 55 4714, 25 YIELD KG/HA 04 Œ O U KG/HA
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II STANDAED ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATICN LSD VARIETY MEANS (\*\*\*\*\*\*\*NS) GRAND MEAN YIFLD DAYS TC DAYS TO N NODULE NODULE NODULE PLANT PLANTS DDS PER 00 SEED DISEASE DISEASE DISEASE FODS 1 100 WOODWORTH CALLAND CLARK 63 AMSOY 71 COLUMBUS OR CROSS WILLIAMS FORREST CORSOY BEESON WELLS ALTONA VARIETY HODGSCN BONUS SWIFT HARK ENTRY 

YEAR 1975

	00000	200000	0000000
1)	00000	000000	
- PROB=.0	00000		
2 0 2	-0.49++ -0.45++ -0.22 -0.32+	-0.29+ -0.53+ 0.00	1.00
.58% .49 PROB	0.37++ 0.32+ 0.40++ 0.21	0.16	1.00.39+++ 0.00.000000000000000000000000000000
4.00 28.32% 11.43	0.67++ 0.30+ 0.07 0.53++ 0.55++	0.43++ 0.42++ 0.44++ 0.00	1.00
0 0 * H	0.06 0.06 0.16 0.05	000000000000000000000000000000000000000	00.00
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TY MEAN RIATION ***=NS)	KG/HA PLOWER ATURITY UMBER 1	EIGHT EIGHT HEIGH LODGIN	HARVEST PLANT WEIGHT OF SEED II
VAKI OF V * *	YIELD DAYS TO DAYS TO M NODULE N	NODULE & NODULE & PLANT	PLANTS PODS PER 100 SEED OUALITY DISEASE DISEASE
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	ETY MEAN 0.00 6.01 4.00 0.87 0.34  ARIATION 0.00% 8.89% 28.32% 16.58% 23.71%  ****=NS) 0.00 ******** 11.43 2.49 0.97  C C R R E L A T I O N S (+ - PROD=.05 ++ -	TANDAED ERROR OF A VARIETY MEAN 0.00 6.01 4.00 0.87 0.34  COFFICIENT OF VARIATION 0.00% 8.89% 28.32% 16.58% 23.71%  LSD VARIETY NEANS (************************************	TANDAED ERROR OF A VARIETY MEAN  COFFICIENT OF VARIATION  0.00 *******  LSD VARIETY NEANS (*********)  C C R E L A T I O N S  YIELD KG/HA 0.00 0.03 0.67++ 0.37++ -0.49++ 0.00 0.00 0.00  DAYS TO MATURITY 0.00 0.05 0.57++ 0.32+ 0.00 0.00 0.00  NODULE NUMBER 1 0.00 0.05 0.53++ 0.35++ -0.40++ 0.00 0.00  NODULE NUMBER 2 0.00 0.05 0.53++ 0.35++ 0.00 0.00  PLANT HEIGHT 2 0.00 0.00 0.00 0.00  C D DAYS TO MATURITY 0.00  C

TABLE 54 EXPERIMENT 644 YEAR 1975

SITE - BUJUMBURA

SITE - BUJUMBURA

LATITUDE - 3 DEG. 20 MIN. S

LONGITUDA - 25 DEG. E

COELRATORS - E. BONIE, D. CIMPAYE, DANABLIN

DATE PLANTED - PEBRUARY 28, 1976

SCHI TYPE - HEAVY GRAY CLAY VERTISCE, PH ABOVE 7.)

AMOUNT CF MCISTURE - 301 MM

	YISLD DAYS IC KG/HA FLOWER M	DAYS TO	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NCDULE WEIGHT 2	FLANT	ICIGING
8 7	64.7	8.0	17	C	6.93	00.00	7.0	0
188.35	63.75	105.75	874.33	7.33	13.57	0.33	27.00	1.00
47.3	0.2	7.5	3 00	, .	5.19	0.0	2.0	20
71,0	0.2	7.5	89	0.	٠	00.00	5.2	0
86.0	1.5	0.0	23	0	0	00.0	7.2	0
79.4	).7	5.7	7 17	0 .	r)	00.00	8.0	0
39,3	0.0	2,5	70	o •	5	00.00	5.7	0
32.3	1,2	5.)	53	0.	0	3.33	3.2	0
43.0	1.0	0.0	9.4	0.	6.	00.00	2 . 2	0
3.4	1,5	0.0	42	0	သ	00.00	6 . 2	0
10.9	).7	7.5	22		9	0.00	0	1.00
0.0	-		6.1		5.29		27.83	1,00
6.50	.63	6	6.8		1,08		0.98	0.00
16.41%	2.08%	5.72%	52,88%	0.00%	40.71%	0.00 %	7.07%	0 0 0 0 %
S. 3	ω .	77 .	8.52		3.10		33	00.0
RELLA	TLCNS		(+ - PROE	= 05	++ - FECB=	01)		
	7	. 57	0	0.0	77.			
7	~	44.	-	-	0.		.58	
L)	-7	0.	0.25	0			.53	
<b>-</b>	0	.2	1.00	0	.7	0	0	
0	$\circ$	۲.	. 30	1.3	٦,		0.	
<b>37</b> (	0		0.75++	0.0	0.		,	
0	0	6	0.00	0	0		0.	
9	u)	°	0.07	0	-		0.	
$\circ$	0	0	00.0	0.	0.		0.	
$\circ$		C •	3.33		0.		0.	
_	_	0.	0.15	9.	0.		0	
0.80++	3.63++	3.64++	0.29+	0.00	0.33+	0.33	0.75++	00.00
_	~	r)	0.28	0.	-		-	
	0 00	2.	-0.16	0	0.		2	

L QUALITY PERCENT	~	70.00	1.75	5 2.33	0 2.50	3.1)	0 2.5	0 2.25	0 2.00 40.5	0 1.25 40.6	7 2.33	0 2.25 44.0	7 7	.7 0.36	2.7 33	2	· PROB=.01)	7++ 0.	6 ).	0++0	8 -0.	0 0.	2 0.	) ),	0	0 0	) ),		
100 SIF	о п	0 6	21.0	21.7	17.C	20.0	27.5	19.5	23.0	19.5	19.5	20.0	21.4	0.6	% ( . 2	0,0	++	h " 0	) 0 1	0.5	1.2	0.0	0.1	0.0	75++ 0.1	0.0	0.)	-0.7	700
PODS PER	4	0	4.12	-	3	don.	2	CV	O	7	23	3	77 .	0.42	<u>د</u>	1.2	- PaoB=.05					- 0			0.75				
PLANTS HARVEST	7	0.7	50.25	7.7	3.5	4.7	1.0	4.0	1.0	7 . 2	4.7	9.2	77.	2.42	000	. 57	*	-	),1	0		0	0	·	-0.05	0	0	0	
SHATTER	00	1.33	1,00	1.))	1.00	1.00	1.30	1.00	1.33	1.00	1.00	1.00	0	0.33	0	00	N O	0	۲.	0.	·	0.	0.	٠.	00.00	0	0.	0	
FULLY VARIETY OF CROSS	TOT	DAVIS	HEH	CSSIER	FOF	CAI	HAR	CCLUMBUS	HARDEE	1C WILLIAMS	N	H	RANE MEA	FAV	IENT OF VARIATIO	SN= * * * * * * * * SNE IN	CCRRELATI	LEID KG/H	AYS TO	S TO MATURIT	CULE NUMBER	DULE NUMBER	DULE WEIGHT	DULE WEIGHT	LANT BEIGH	22	SHAITER	S	

TABLE SS EXPERIMENT 645 YEAR 1975

SITE - MCSSC

LATITUDE - 4 DEG. S

CCOUNTEY - FUNDULI

BLEVALION - 1250 M

LCNGITUDE - 30 DEG. E

CCOFFEATCR - J. LE BEABANDIRE

DATE PLANTED - FEBRUARY 14, 1976

FERTILIZER USED (KG/MA) - N 42.0, R 42.0

AMOUNT OF MCISTURE - 5)5 MM

N.B. - 3 REPLICATIONS ONLY FOR THIS EXPERIMENT

ICEGING	_	1.00	٠,	0	C	0	0		) C		) C	) (	2 0	0	1.0)	,	٥,	0 0	, o	2		C	0.00		0	0	0		0	0			0	0	0 1
PLANT	9	0	.3	30,3	5.6	0 8	3.6	9 "0	0	( "	2.6				27.33		٠,	00	% - C → ≈	2		0.48++	0000	30	00.00	· ·	0	0	0	0	0			(7)	- 1
NCDUIL WEIGHT 2	0.30	00.00	00.0	00.00	00.0	0.33	00.00	0.30	00.00	3.33	00.00	00.00	), ]]	00.00	0.03			00.0	800°C	•	01)		0.00											0.	0 1
NOEULE WEIGHT 1		0	0	C.	9	Α.	0		٥.		0	C		0	0.00	00		20.0	80000	•	+ - FECB=.	0.00	0.00	00.00	00.0	0.00	1.00	00.00	00.00	0.10	00.0	), 9)	00.0	0.00	00.0
NCEULE NUMBER 2	_ C		U *	C	0.	٦.	0	0	0	ς.	0	$\circ$		0	0				0.00	•	+ 90 =		3.33												
NUMBEE 1		00.00	0	0	$\circ$	0		_	$\circ$		0	60	0.00		5	00		3.00	0.00	•	(+ - PEOE	00.00	0.00	0.00	1.00	00.00	00.00	00.00	00.00	3.1)	00.0	1.11	00.00	00.00	0.00
DAYS TO	86.11	87.67	Ċ,	÷.	S)	~	φ.	2 ,	0	7.	8	4	5	2	0	83.71	• } ==	2.30%	, m		S	9	1,11	0	0.	0	C.	0	20	0.	0.	-	-	. 2	1 2
DAYS TO FLOWER	3, 33	0.00																. 1	0.00		ATICNS	0	1.33	0.	0	0	0	0	٥.	0	0	~	٠	ت.	- 1
YILL E RG/HA	1803.67															35.3	4.8	23.8	361.65		T H H O	0	0.11	12		0		0	-+		0	0	2	$\sim$	1
																GRANE MEAN			( ********** ( \$N = N = N = )		Ü	KG/HA	FLOWLR	MATURITY		NUMBER 2		WIIGHT 2	EEIGHT	ICDGING	SHATIER	HARVEST	PLANT	) H 리	CE SEED
EFF OF CROSS	CCLUMBUS	H AKULE	THATET	NOTE THE	FURITEDI	CALLANL	BOSSIER	STRMES	HAMPTON 266A	WILLIAMS	IMPROVED FELICAN	TEACY	WCCLWCETH		CLARK 63	GR	STANDARD ERROR OF A VARIETY	LN	_			XIELD	10					DULE	FLANT			PIANTS	POLS PER	Dames of the state	OBALLIY
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(CONTINUED)
YEAR 1975
EXFERIMENT 645
TABLE 55

OF SEEE 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	
100 SEED 19.00 19.00 19.67 19.67 19.67 10.00 10.00 11.00	0.0000000000000000000000000000000000000
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# PELANTS # PART 133 # 477 333 # 476 67 # 619 333 # 622 67 # 633 67 # 64 24 # 74 24 # 74 24	40000000000000000
SHATTEH 1.00 1.100 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	4
CAN  CAN  GRANC MEAN  ARIETY MEAN  F VAFIATION  *******	KG/HA  KG/HA  AJURITY  NUMBER 1  NUM
E CCIUMBUS HARDEE DAVIS CCIUMBUS HARDEE DAVIS JUDITER CALLAND BOSSIER SEMMES HAMPTON 266A WILLIAMS HAMPTON 266A WILLIAMS COEBE CLASK 63  ANDARD ERROR OF A VARI COEBE CLASK 63  COEPTICIENT CF V COEPTICIENT CF V	YIEL AYS I NOCOUL NOCOUL NCCOUL NCCOUL FLAN FLAN PIANT DS FE
20 1 1 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3	

YEAR 1975	
EXPERIMENT 487	
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	LCDGING	000000000000000000000000000000000000000	
	PLANT	231.00 231.00 223.00 223.00 223.00 230.00 240.00 240.00 240.00 240.00 240.00 240.00 240.00 240.00 240.00	22. 22. 2357 2320% 720% 0000 0000 0
	NODULE IFIGHT 2		
975	NODULE WEIGHT 1 W		- PROBE
E ECEMBER, 10	NUMBER 2		00.00 00
CAMEROON N - CAMEROON E - 6 DEG. VPSTED - D	NODULE NUMBER 1	000000000000000000000000000000000000000	00000000000000000000000000000000000000
COUNTRY ELEVATIO LONGITUD DATF HAR 2.0, K 36.	DAYS TO	110.00 125.00 95.00 95.00 100.00 100.00 100.00 100.00	25.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
1975 26.0, P 1	1 33	550.00 500.00 500.00 500.00 600.00	# 1 1 1 66 % % % % % % % % % % % % % % %
L.A. PTEMPER 9, KG/HA) - N E - 1168 M	YIFL KG/H	921,95 838,61 738,61 738,61 738,61 738,61 738,61 738,33 752,02 600,42 600,42 600,42 600,42 600,42 600,42 600,42 600,42 600,42 87 87 87 87 87 87 87 87 87 87 87 87 87	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
GION - AFRICA TITUDE - 10 DEG OPTRATOR - 4.A. TE PLANTE - SE IL TYPE - SILT FILITER USED ( OUNT OF MOISTUR	1 t t t t t t t t t t t t t t t t t t t		MEAN MEAN MEAN CG/HA COWER COW
BEGION SITF WI LATITUDE COOPTRATC TATE PLAN SOIL TYPE FERTILITE A WUMBTR OF	ARIET R CRC	PORRFST IMPROVED PELICAN HARDEF DAVIS HAMPTON 266A COLUMBUS HAMPTON 266A COLUMBUS BOSSIER SEMMES JUPITER CALLAND TRACY COBB CLARK 63	ARIETY MEANS (*******  ARIETY MEANS (*******  DAYS TO PE DAYS TO PE DAYS TO MATHER NOBULE WITH NOBULE WELL NOBULE WELL NOBULE WELL NOBULE WELL NOBULE WELL DEANTS HANDON SPED WELL NOBULE WELL DESASSED DESASSED
	FUTET	6 4 E C C C E C C C C C C C C C C C C C C	STANDAF

ENTRY VAR NUMBER OR				10											12 WOODW		STANDARD ER		% L'SD VARIETY																		
CROSS		ROVED PELICAN	10000000000000000000000000000000000000	VTS	IMPTCN 2664	MARUS	LIAMS		: (の) (E) (E) (E) (E) (E) (E) (E) (E) (E) (E	TTFP	LAND	, A-1		, m	NO B	MF	E.	ATIO	MEANS (*******	U	KG/H	AYS TO FLOWE	DAYS TO MATURITY	NUMBER	NODULE NUMBER 2	WFIGHT	WEIGHT	HEIG	LOUGI	SHATT	HARVT	P.I.A	WEIG	OF SE	DISTASE		j
SHATTER		0	0	C .	0.	0	0	0	0	٥	0	0	0	0	4.00	9	00.00	C	00.	ORREL	0.65	.484	0.34+	0.	0.	0.	0.	.36+	0	0.	. 2	.3	0	-	0.03	0	
PLANTS	43.75	6.7	1,2	5.2	8.5	1.7	4.2	1.0	1.7	0.0	3.7	4.7	2.7	1,2	38.25		4.37	0	* *	ATION	0.2	0.1	-	0	0	0	C	0	0.	. 2	$\subset$	-	0.	0.	00.0	C.	
PODS PER PLANT	13.00	2	- 7	1.	1.	10	. 7	0	5	7.	0	0	. 2	7	• 5	(4)	1.63	7	4.6	ಶ	.31		. 35												0.00		
100 SEED WEIGHT	29.00	2	7	5	-	5	5	1	2	0	2	2	2	0	5	0	1.68	7	8	(+ - PROB	-0.0	-0-1	-0.3	0	0	0.	0	0	0.	0	0.	0	0	5.	00.00	0	
QUALITY OF SEED		0	0	0	0	0,	2.	0	0	0	0	0	0	0	0		0.15	0.	7 0	=.05 ++	0.36+	3	-0-1	0 .	0.	00	C.	۵,	0.	-	0.0	, 32	0.5	0.	00.00	0	
PROTEIN	41.6	15.1	43.1	40.8	40.7	20.4	. 43.1	44.7	41.6	41.8	44.1	43.9	42.0	42.2	43.1					- PROB=.					- 0		0		- 9	. 0					1.00	- 0	
OIL	22.9																			01)	0.	0 .	0	0.	0	0	0	C	C	0	0.	0	0.	0	00°0	0	
																							0.00												0.00		

YEAR 1975

PXPERIMENT 487

YEAR
06 17
EXPERIMENT
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TABLE

COUNTRY - CONGO ELEVATION - 800 M	LONGITUDE - 14 DEG. 20 MIN. E	DATE HARVESTED - FEBRUARY, 1976	150.0
REGION - AFRICA SITE - LEKANA	LATITUDE - 2 DEG. 20 MIN. S COOPFRATOR - IVETIC OBRAD	DATE PLANTED - NOVEMBER 26, 1975 SOIL TYPE - SAND, SILT 2%, CLAY 30%	FFRTILIZER USED (KG/HA) - P 90.0, K 150.0 amount of moisture - 817 MM

LODGING		00.1			1,00	1,00			1.00	00.	00.1	0000	00.1		1.00		1.00	00.00	0.00%	00.00			00.00	00.00	00.00	00.00	00.00	0.00	00 0	00.00	1.00	0.00	00.00	00.00	00.00	00.0	00.00	00.00	00.00
PLANT	0	27.00	21 75	22, 25	23.00	20.75	20. 50	18, 25	29.25	21.00	20.00	10.00	10.50	10.00	19.25		23.88	1.72	14.43%	4.93			0.58++	0.85++	0.66++	00.00	0. 18	00.00	00 0	1.00	00.00	00.00	0.27+	0.72++	-0.04	0.01	0.00	00.00	
NODULE WEIGHT 2	c	00.00	00.00	00.0	00.00	00.00	00.00	00.00	00 0	00.00	00.0	00.0	00.0		00.0		00.00	00.	%00°0	00.00	01)		00.0	00.0	00.00	00.0	00.0	00.00	1.00	00.00	00.00	00.00	00.00	00.0	00.0	00°0	00.00	00.0	
NODULE WEIGHT 1	00.0	00.00	00.00	0.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00 00	00.00	0.00	ć	00.00	00.00	0.00%	0.00	+ - PROB=.	(	00.00	00.00	00.0	00.00	00.00	1.00	00.00	00.00	00.00	0.00	0.00	00.00	00°0	00.00	00 00	00.0	00.00
NODULE NUMBER 2	108.50	131.25	84.25	146.75	95.75	189.75	117.50	136,75	83.75	111,00	92.00	73.50	63,25	62.00	78.50	0 000	104.97	0.26	30000	27.90	+ 50°=	(	0.59++	60.0	0.13	00.00	1.00	00.00	00.00	0.18	00.00	00.00	++65.0	0.43++	0.33++	ħ0°0	00.00	0.00	0.00
NUMBER 1	0	00.00	0	C		0	0	0	0	0	0	0	0	0	0	c			*00.0	00.00	(+ - PROB	0	00.00	00.0	0.00	1.00	00.00	00.00	0.00	00.00	00.00	0.00	00.00	00.0	00.0	00.00	0.00	0.00	00.0
DAYS TO	120.00	100.00	106.00	106.00	106.00	85.00	100.00	91.00	91.00	85.00	88.00	83.00	85.00	85.00	83.00	76 49	000	0000		00.0		0		4+0000	1.00	00.00	0.13	00.00	0.00	0.66++	0.00	0.00	かい	0 ° 0 ° +	-0.0-	0.23	00.00	00.00	00.00
DAYS TO FLOWER	m	45.00	o	ċ	o e	ກໍເ	ສ	o (	ກໍ	÷.		ď	~	~		07-40	00.00	2000		•	TIONS	0 5144		- 0	4+0000	0.00	60.0		00.00	++0000		324	0.324	++ 0.0	70.07	60.0			 
YIELD KG/HA	1146.06	966.86	111.24	720.98	680.55 660.53	12.260	5/9.28	541.77	01.000	429.25	398.00	254.22	239.63	237.55	191.70	554.69	175.85	63.40%	502.60	1	ORRELA	1,00	0.5144	) Li			++50.0			10000	00.0	0.55++		2 0	2 5	•			
									-							AND MEAN	ETY MEAN	ARIATION	(SN=*******)		υ	KG/HA	FLOWER			C GHENIN	TOTOTA T	C FEDICAL O	HETCH	LODGING	SHATTER	HARVEST	PLANT	1000年度20000年度2000年度2000年度2000年度2000年度2000年度2000年度2000年度20000年度20000年度20000年度20000年度20000年度20000年度200000000	OF SEED	-	1 L	111	
VARIETY OR CROSS	JUPITER	DAUTO	UN VIS	a D	HAMPTON OCCA	0 0	のなりのは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本のは、日本	TMDROVED DELICAN		CONTRACT		2	W L L L L A M S	MOODWORTH CO.	CLAKK 63	25	TANDARD ERROR OF A VARI	COEFFICIENT OF V	MEANS	•		VIELD	DAYS TO		III. W				7 E	1		PLANTS	PODS PER	100 SEED	OUALTTY	DISTRICTOR	DISEASE	DISEASE	-
ENTRY	₩ 0		. ~	r	2	ی ا	15	7	10	- ==	- α	130	10	1-1-			STANDAR		5% LSD VARIETY																				

	ON CROSS	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	PROTEIN	PERCENI	
		1.00	179.00	16.55		1.00	41.2	23.6	
	FORREST	1.00	193.75	10.95	17.25	2.00	41.8	23.0	
	DAVIS	1.00	176.00	10,30		1.00	43.6	22.6	
	HARDER	1.00	155.00	12,73		1.00	39.9	25.3	
	COAR	1.00	166.50	10.00		3.00	39.8	24.9	
	HAMPTON 266A	1.00	207.75	7.70	21.50	1.00	45.4	21.5	
	BOSSIER	1.00	156.25	8 . 67	18.00	1.00	46.1	21.2	
	の国際	1.00	185,50	6.03	18, 25	2.00	45.7	20.6	
	IMPROVED PELICAN	1.00	203.75	10,30	11.50	2.00	42.1	24.0	
	COLUMBUS	1.00	154.75	6.22	18.00	1.00	44.7	22.1	
	CALLAND	1.00	136,00	6.65	19,25	1.00	44.8	20.6	
	TRACY	1.00	163.00	6.08	16.75	1.00	46.6	19.1	
	WILLIAMS	1.00	119.75	5.62	18.50	1.00	45.5	22.1	
12	WOODWORTH	1.00	98.25	6. 10	17.00	1.00	43.0	22.3	
	CLARK 63	1.00	59.25		18.50	1.00	43.6	22.1	
	No.	1,00	156.97	8,75	17,67	1, 33			
STANERE	STANDARD ERROR OF A VARIETY MEAN	00.00	11.27	1.60	6	00.00			
	OF VARIA	800.0	14.36%		10.52%	%00°0			
LSD VA	*******	00.00	32.21	4.56	2.65	00.0			
	U	ORREL	ATION	c.	(+ - PROB=.05	+	+ - PROB=.01)	.01)	
	YIELD KG/HA	0	0.55++	.0			00.00	00 0	00.00
	TO FL	00 00	0.32+	0.61++	-0.02	60.0	00.00	00.00	00.00
		00.00	0 34+	0.			00.00	00.0	00.00
	NUMP	00.00	00.0	0	00.00	00.0	00.00	00.0	00 00
		00.00	0.39++	0.0		0	00.00	00.00	00.00
	WEIGHT	00.00	00.0		00.0		00.0	00.00	00.00
	NODULE WEIGHT 2	00.00	00.0	0.	00.00	00.00	00.0	00.00	00.00
	PLANT HEIGHT	00.00	0.27+	0		0.01	00.00	00.00	00 00
	LODGING	00.00	00.00	0	00.00	00.00	00.00	00.0	00 00
	SHATTER	1.00	00.00	0.	0.00	00.00	00.0	00.0	00.00
	HA	00.00	1.00	0.		0.34++	00.00	00.00	00.00
	PODS PER PLANT	00.00	0.33+	+	90.0		00.00	00.00	00.00
		00.00	0.01	0.	1.00		00.00	00.00	00.00
	OF	0	0.34+	_	-0.21	1.00	00.0	00.00	00.00
		00.00	00.00	0.	0.00		1.00	00 0	00 00
	DISEASE II	00.00	00.0	0.	00.00		00.00	1.00	00 00
		1							

YEAR 1975

EXPERIMENT 490

YEAR 1975
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EXFERIMENT
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TABLE

REGION - AFRICA

SITE - INA, PARAKOU

LATITUDE - 9 DEG. 58 MIN. N

LATITUDE - 9 DEG. 58 MIN. N

LONGITUDE - 2 DEG. 44 MIN. E

CCOPERATOR - 1.8. A.T. - DAHCMEY

DATE PLANTED - JULY 9, 1975

SOIL TYPE - SAND, PH 5.2

FERTILIZER USED (KG/HA) - P 40.0, K 60.0

AMOUNT OF MOISTURE - 788 MM

ENTRY	VARIETY		IEL	1 5	1 5	7111	1110	1 1	1 :		1 1 1 1 1 1 1 1 1
NUMBER	OR CROSS		KG/HA	FLOW	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HELD MA	TORETAR
-	JUPITFR		3175-63	07 50	1000	000		1			-
en	HARDEE		3125.62	40.75	103 75	185 00	00.082	1.22		77.75	1.50
7	DAVIS		. 2833.90	39.00	100 75	103.00	000000000000000000000000000000000000000	1.2.1		30.00	1.00
<b>37</b> (	IMPROVED PELICAN		2729,71	44.50	104.00	196 25	20000000	/0 *		34.75	1.00
2	COBB		2600, 52	110 25	100 00	170000	340.73	₹0°I		74.25	0
6	FORREST		2433.82	37 25	07 0 70	118.27	341.00	1.60		36.25	1.00
14	CALLAND		2000000	36 36	07.00	178.75	311-25	1, 13		35.25	0
10	COLUMBIIS		000000000000000000000000000000000000000	00.00	87°70	207.50	333.50	1.45		48.50	0
15	O C E E		2333 00	37.75	92.25	257.00	390.25	1.45		46.50	
2	HAMPHON SECA		2313.80	37.00	92.50	205.50	409.25	1.05		25,75	3 6
1 4	7		2225.44	36.75	96.50	226.00	432.00	1,39		37 25	00
, F	r a		2108.75	38.00	97.50	255.75	385,25	1.60		26 25	0
2 α	# T L L L B M D		1867.04	35.25	86.00	217.00	288.75	1.42		21 50	> $<$
11	y		1850.37	35.25	82.00	178.50	225.75			28 20	> <
17	0 0		1700.34	36.50	88.00	200-25	277.75			25 25	$\supset$ $<$
7	HILMOMODA		1233.58	33.50	78.50	169.75	180.50	66.0	2.40	32. 50	1.00
		CRAND MEAN	2 11 6								`
STANDA	TANDARD FREDRO OF A VALLETY		000000			-4	+	0	1.7R	40. FZ	1.03
	G E-	OF VADTATION	12.23	0.44	1.00	18.63	40.80	0.10	.00	3.80	-
5% I.Sn Vi	- %		100	0	0	10	ţ,	15.43%	000	18.714	0
	e para	(SNII++++	5.	0		0.1	ŝ	0.28	1.13	10.86	· *
		S	ORRELA	TION	S	(+ - PROB	=.05	++ - PROB=	010		
	YIELD	KG / HA		7769 0		,					
	DAVS TO	FICERD	7	0	- 0	++4	0.43+4	10.32+	0.31+	0.54++	0,18
	OF SARC	MARIOTAR	0 0	000	0.88++	60 0	0.23	0.03	0.07	0.75++	0.314
	T OF CIRC	MIUNITI	0.77+		1.00	0.15	0.46+1	0.13	029+	0.54+4	0.10
		I PERMI	36		0.15	1.00	0.45+4	+610	+ 0.32+	0.24	
	Z HILLON	UMBER Z	. 43	0.23	0.46++	0.45++	1.00	0.41+	1 0-71++	0.10	1000
	S HIDDON	EIGHT 1	32		0.13	0.79++	0.41+4	1,00	0.58++	01.0	0 13
	NODOLE	EIGHT Z	~ 1	0.07	0.29+	0.32+	.71	0.58+	1,00	0 10	000
	PLANT	HEIGHT	0.54++	.75	0.54++	0.24	10	0.10	-0.10	100	
		LODGING	0.18		C. 19	0.04	-0.07	0, 13	90.0	200	
		SHATTER	00.00	00.00	00.00	00.00	00-0	0.00		000	- 0
		HARVEST	-0.24	_	-0.26+	-0.18	-0.46++	10000			00.0
		PLANT	0.70++	0.82++	0 84++	0-17	0.40	0.237	++20.00	10.04	0.00
		WEIGHT	0.45++	0.11	0.25	0-36++	24	0.455	0 3/4 1	+ 7 4 ° 0	0, 15
	QUALITY	OF SEED	-0.15	-0.33++	-0.31+	0,10	700	0.40	++ 50000	70.0	0. 19
	DISEASE	Н	00.00	0.00	00 0	00.0		• • •		-0-18	-0.05
	DISEASE	II	0	0.00	00.00	00.00		500		0.00	00.00
	DISEASE	III	0	00.00	00 00				00.0	00.00	00.0
				- 1			2 !	0000	0.00	00 00	0.00

																					00-00			0,00	00 0	00.00	00 00	00°0	00.00	00 00	00 00	00.00	00 00	00.00	00.00	00 00	00
PERCENT	24.7	23.7	23.6	24.0	24.8	23.1	23.2	24.6	21.4	26.0	21.8	24.9	21.8	23.4	24.2					01)		0	0000	8 (	1 0								9		- 0		
PERCENT PROTEIN	43.7	45.6	43.5	44.5	40.8	43.2	44.1	44.1	44.6	42.1	46.7	43.2	46.2	43.4	42.0					- PROR=.	00.00			00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.0	0.01)	1.00	00.00	
QUALITY OF SEED	9				0		- 0	- 6	- 0		- 6		2 (		2.50	2 30	7 (	Na	0.72	*05 ++	0.1		-0.31+	0.1	0	-	0.	0.1	-0.05	00.00	0	. 0	9	0	00.00		
WEIGHT (	2	20.75	0	0	5	-	N	0		0	0	C	0	LC	17.00	-	- L	ບິກ	1.52%	(+ - PROB=.	- 4	7	0.25	1 6	N	4	(4)	0	$d_{mn}$	0	3	-	0	~	0	0	<
PODS PER 1	~		3	4	5	4	0	7	8	5	9	7	-	7	- 3		) (	3 0	6.89		0.70++	, a	0.84+	17		0.18	N	0.62++	0.16	00.00	++94*0-	1.00	016	-0.29+	00.0	00.00	000
PLANTS PHARVEST	5	. 0	6 0	ŝ	3.	9	70		7	7 .	-27	00	2	3	151.00	0	. [	- [	20.54	T I O N S	. 2	1	-0-26+	0.1	0.4	0	0	Ö							00.00		
SHATTER	00°0	00 00	00.00	00.00	00°0	00.00	00 00	00.00	00.00	00.00	00.00	00.00	00 0	00.00	00.00	00.00		0000	00.00	RRELA	0	C	0000	0	0.	0.	0	0	0	-	0.	0	0	0	0	0	C
																30	3	EF	***= NS)	0 0	LD KG/HA	PLOUER	ATURITY	UMBER 1	UMBER 2	EIGHT 1	EIGHT 2	HEIGHT	LODGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	(m)	II	TTT
VARIETY OR CROSS	JUPITER	HARDEE	DAVIS	IMPROVED PELICAN	COBB	PORREST	CALLAND	COLUMBUS	SERES	HAMPTON 266A	BOSSIER	WILLIAMS	TRACY	CLARK 63	OR	GRAND	STATE OF THE STATE	COEFFICIENT OF VARIETY	~		YIELD	DAVS	DAYS TO MI	200	NODULE N	NODULE WI	NODULE W	PLANT			PLANTS	PODS PER	100 SEED	QUALITY	DISEASE	DISEASE	DICERCE
ENTRY	-	3	7	37	S.	6	14	10	15	2	9	13	00	11	12		CHRUDAD	STANDALC	5% LSD VA																		

YEAR 1975

EXPERIMENT 435

00

YEAR 1975
EXPERIMENT 431
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TABLE

	ы	1975	
COUNTRY - EGYPT	LONGITUDE - 31 DEG. 15 MIN.	DATE HARVESTED - SEPTEMBER, 1975	IES) 7 (LATE VARIETIES)
		0	- N 11.4, P 4.5 5 (EARLY VARIET CLARK, HAMPTON
REGION - AFRICA SITE - BAHTEEM	LATITUDE - 30 DEG. N COOPERATOR - ALI ABDEL AZIZ	DATE PLANTED - JUNE 6, 1975 SOIL TYPE - CLAY LOAM, PH 8.0	FERTILIZER USED (RG/HA) - N 11.4, P 4.5 NUMBER OF IRRIGATIONS - 5 (EARLY VARIETIES) 7 (LATE VARIETIES) SUBSTITUTE VARIETIES - CLARK, HAMPTON

LODGING	000000000000000000000000000000000000000	13.11% 0.20 0.20 0.73+ 0.71+ 0.00 0.00 0.00 0.00 0.34+ -0.34
PLANT	000000000000000000000000000000000000000	
NODULE WEIGHT 2	000000000000000000000000000000000000000	
NODULE WEIGHT 1	000000000000000000000000000000000000000	+ + + + + + + + + + + + + + + + + + +
NODULE NUMBER 2	000000000000000000000000000000000000000	***************************************
NOBULE NUMBER 1	000000000000000000000000000000000000000	+)
DAYS TO	124.00 88.25 91.25 84.25 83.50 77.25 163.75 163.75 70.00 92.25	S
DAYS TO FLOWER	52.75 32.75 32.50 31.00 31.25 67.25 31.25 31.25 31.25 31.25	34.83 0.54 3.10% 1.55 1.00 0.00 0.00 0.00 0.73++ 0.73++ 0.73++ 0.73++ 0.73++ 0.70 0.00 0.00
YIELD KG/HA	3098.54 2703.46 2581.77 2542.17 2242.17 2244.20 2186.69 1985.81 1722.43 1331.52	2141.68 376.41 35.15% 1081.16 0.18 0.19 0.00 0.00 0.00 0.00 0.00 0.32 0.32 0.33 0.00 0.00
		GRAND MEAN  (*********  (*********  (*********  (******
VARIETY OR CROSS	PORREST CLARK CLARK GODWBUS GODWORTH WILLIAMS HODGSON WELLS HAMPTON BEESON CLARK 63 AMSOY 71 SWIFT	TANDARD ERROR OF A VARI  COEFFICIENT OF V  YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE PLANT  PLANT  PLANT  PLANT  PLANT  DISEASE DISEASE DISEASE DISEASE DISEASE
ENTRY	77 80 1 1 1 8 9 E 5 6 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STANDA

	000000000000000000000000000000000000000
PERCENT 01L 22.3 23.9 23.9 23.8 24.5 24.5 24.5 24.5 24.5 24.5 21.1	000000000000000000000000000000000000000
PERCENT PI 40.9 39.5 40.5 40.5 40.3 40.3 40.0 59.9 38.9 42.8	PROB =
OUALITY   SEBD	. 05 . 00 . 00 . 00 . 00 . 00 . 00 . 00
MEIGHT 10.79 15.97 13.88 14.98 12.93 13.09 13.00	PROB= 102 102 102 103 104 104 106 106 106 106 106 106 106 106 106 106
PODS PER 1 53.58 21.90 39.00 25.90 25.90 38.10 38.10 33.30 66.48 66.48 18.98 18.98 25.93 25.93 26.95 27.05 33.98 4.18	000000000000000000000000000000000000000
PLANTS 194.50 158.00 158.00 193.75 198.25 186.25 137.25 137.25 184.25 137.25 137.25 137.25 137.25 137.25 137.25 137.25	+ + 0000000000000000000000000000000000
SHATTER 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	E L L 118 + 118 + 119 +
ND MEAN MEAN BIATION ***= S)	7.5
ENTRY VARIETY  NUMEER VARIETY  12 CLARK  COLUMBUS  WOODWORTH  WILLIAMS  WELLS  HAMPTON  GRAND  STANDARD ERROR OF A VARIETY  COEFFICIENT OF AVARIETY  COEFFICIENT OF AVARIET	YIELD DAYS TO DAYS TO NODLE W
EN D D D D D D D D D D D D D D D D D D D	

YEAR 1975

EXPERIMENT 431

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	REGION - AFRICA SITE - SEDS LATITUDE - 29 DEG. CCOPERATOR - ALL PATE PLANTED - JUL SOIL TYPE - CLAY FETILIZER USED (FOUNDER CF IREIGAT) SUBSTITUTE VARIETATI	N N N N N N N N N N N N N N N N N N N	2 2 8 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CCUNTRY LCNGITU DATE H9	DE - EGYOT SVFSTED - DE	G. E OCTOBER,	3.7.5			
ENTRY	VARIETY OR CROSS	YIELD KG/HA	DAYS TO	DAYS TO	NUMBER 1	NO MODULE	NODULE WEIGHT 1	NCDULE WEIGHT 2	PLANT HFIGE:	1
o- 20 ·	COLUMEUS	921.4	0.9	9.5	2.7	7.7	00	000	0 0	
8 r v	DAVIS TRACY	588.0	9.2	97.0	0.00	6.50	.0	0	9 0	
t 57	1 (42	325.4 258.7	- 6	3.2	7 O C	7			0 0	
14	2E O	254.6 175.4		09.0	000		200		0 0	
13	S E	142.0	8.7	8.7		• • • • • • • • • • • • • • • • • • •			9 0	
10	HAMPTON 266A IMPROVED PELICAN CLARK 63	1892.04 1825.36 1775.35	55.00 63.25 38.50	110.75 108.00 78.75	6.50	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00.00	* # O # 9 C C C 9 C C C	103.75 45.00	
STANDA	GRAND MEAN  ED ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATICN ARIETY MEANS (******=NS)	2277.84 344.58 30.25% ******	48.39 1.19 4.93% 3.41	95.05	4.39 3.63 165.44%	9.61 10.29 214.21 ******	0.07 0.06 168.91% *****	0.12 0.22 371.94% *******	54.46 6.38 19.80%	
	O	CRREL	ATION	Ŋ	(+ - PRO	B=.05	++ - PROB=	.01)		
	KG FLC A TUR UMBE	1.00	1.00	1.00	0.32+	15	0.01	+ - 0 - 17 - 0 - 19	0.29+	
	ODULE NUMBER ODULE WEIGHT ODULE WEIGHT	00-	.16	33 . 33	.52+	000	0 - 0			
	LODGI	.0.	. 6	000	0.0	19.	000	0.00		
	PER PLA	- 6. 0. 4	.27	000	000	22.0	000	000	0 0 0	
	UALITY OF SE ISEASE	-00	÷ 000	000	000	000		000		
	I	0.0	0.0	a 8	0.0	0 0	0 0	0.0		

1.50 2.50 2.50 2.50 2.50 3.50 

XEAR 1975

EXPERIMENT 434

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1975
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EXP
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TABLE

SITE - ARUSSIE NEGELLIE

SITE - ARUSSIE NEGELLIE

LATITUDE - 7 DEG. N

LONGITUDE - 38 DEG. E

COOPERATORS - ENEYEW BTS, DEMISSIE MITIKU, PRKADU ABEBE

DATE PANTED - JUNE 18, 1975

SOIL TYEE - CLAY LOAM

FERTILIZER USED (KG/HA) - N 18.0, P 46.0

LODGING		000000000	
PLANT	63.00 75.50 50.75 55.50	64.50 64.50 64.25 64.25 68.25 68.25 51.00 68.00 66.75	58.44.5 1.888 5.44.88 5.39 6.02.34 6.02.40 1.70
NODULE WEIGHT 2	2.23 2.23 1.80	2.28 2.28 2.28 3.34 3.58 1.08 1.33	2.88 0.40 1.14 0.20 0.20 0.18 0.64 0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00
NODULE WEIGHT 1	1.83 1.90 1.53 1.53	22.0088. 2.0088. 3.0005. 3.0005.	35.65% 35.65% 1.283% 1.
NODULE NUMBER 2	316.50 213.00 168.50 142.50	246.50 200.50 182.50 307.50 142.00 200.50 103.75 209.00	25.86% 25.86% 71.94 71.94 0.35++ 0.55+ 0.05 0.00 0.00 0.00 0.00 0.00
NODULE NUMBER 1	203.00 116.25 156.25 141.00	195.50 166.00 179.00 90.55 159.75 124.75	148.43 29.85 40.22% 10.22 -0.21 -0.23 1.00 0.55++ 0.69++ 0.07 0.00 0.00 0.02 0.02 0.02 0.03 0.03 0.00 0.00
DAYS TO	142.25 153.75 139.75 161.75	140.50 137.50 147.25 143.25 157.75 139.50	1.45.86 0.50 1.43 % 1.43 % 1.05 % 1.0
DAYS TO FLOWER	60.75 75.25 60.75 64.25 57.25	60.50	71.66 0.27 0.89% 0.79 0.79 0.04 0.04 0.00 0.00 0.00 0.00 0.00 0.0
YIELD KG/HA	1129.39 1000.20 800.16 516.77 458.42	383.41 379.24 325.06 295.89 233.38 195.87 67.52 62.51	1,00 34,57% 208,54 1,00 1,00 1,00 0,20 0,30 0,30 0,30 0,30 0,30 0,30 0
			NNN O MENTALVER CARTEROLLE
VAPIETY OR CROSS	WILLIAMS FORRFST AMSOY 71 BEFSON HARK	CLARK 63 ALTONA HODWORTH COLUMBUS HILL WELLS WELLS BONUS	GPAND MEA  GTANDARD RREOR OF A VARIETY MEAN  COEFFICIENT OF VARIATIO  YIELD  WG/H  DAYS TO METLOWER  NODULE WEIGHT  NODULE WRIGHT  NODULE WRIGHT  NODULE WRIGHT  NODULE WRIGHT  PLANT  PLANT  PLANT  PLANTS  PLANT
FNTRY	<u>5</u> 22.c2	0 	S% ISD V

																									,	00.00	00.00	00.00	00.00	00.00	00.0				00.00	0.00	00.00	00.00	00 0	00 00		00.00	00 0
PERCENT		15.3	16.5	10 1	1001	16.8	16.3	17.8	14 1	14.1	18.5	17.4	18.1	18 1	7 0 0	10°4	17.1	18.5						1)	- 1		00.0	00.0	00.00	0,00	00.00				00.0	00.0	00.0	0.00	00.00	00.0	000		000
PERCENT		45.3	42.9		7	44.0	46.6	46.4	47.0	D - L -	40.0	46.9	46.0	45.9	72 °C	7.01	44.4	49.2						- PROB=.0		++ 94.0-	-0.37++	-0.15	-0.12	-0.39++	-0.41++	-0.56++	++69 0-		•	00.00	-0.10	-0.62++	0.29+	-0.06	1.00		(1) - (1)
QUALITY OF SEED				0 11	9			-	•		3 . 25	4.75	5.00			0, 70			(	3,73	0.23	11.63%	0.65	++ 50.		-0.32+	-0.18	0.11	90.0-	0.01	0.25	0.17	0.02	20.0		00.00	-0.10	-0.25	-0.16	1.00	-0.06		110 - 11
00 SEED WEIGHT		18.80	16.48	16.48	0.4	19.65	15.45	13,25	10 05	0000	14.00	14.48	13,93	13.90	000	00.00	17.30	11.55	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	12.33	0.34	4.23%	96.0	(+ - PROB=.		0.0344	0.07	0.09	0.02	-0.14	-0.22	-0.43++	++ 2 7 - 0 -	0.00		00.00	-0.12	0.12	1.00	-0.16	0.29+	000	11 1111
PODS PER 1	1	14.00	15.03	11.28	22.0	9.73	7.88	10, 18	6. 40	2 5	C+ • /	7.10	10.70	8.12	, C	000	0 7 7	3,25	0	7.0	1.43	34.84%	4.09		20.00	407.00	0.46++	-0-11	0.24	0.32+	0.27+	0.32+	0.46++	00.00		Š	0.10	1.00	0.12	-0.25	-0.62++	00 0	0000
PLANTS	1 1	185.75	190.00	181.25	10.00	19.2.20	194.00	177.00	178.75	100	000	193,25	167,75	197.00	182.50	120 50	00.671	190.75	100	00.00	7.87	8.47%	****	ATIONS	F.O. 0		70.0-	60.0	0.17	90.0	0.10	0.02	0.01	00.00	00.00	2 5	· (	-0.10	-0.12	-0.10	-0.10	0.00	1111111
SHATTER	0	00.00	00.0	00.00	000	00.0	00.0	00.0	00.00	000		00.00	00.0	00.0	00-0		0000	0.00	00 0		0.00	800°0	00.0	ORREL	00 0		00.0	0.00	00.0	00.0	00.0	00.0	0.00	00.0	1,00		00.00	0.00	00.0	00.00	00.0	00.00	0000
																			CRAND MEAN	2 3	ETT BEAN	ARIATION	****=NS)	υ	KC /HA	O PLO TE	T T C T C T C T C T C T C T C T C T C T	TT FU OF TE	NUMBER	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LODGING	SHATTER	UNDURED.	TANKESE TO THE	PLANT	WEIGHT	OF SFED	₩	II	44
VARIETY OR CROSS		WILLIAMS	FORREST	AMSOY 71	NO SERVICE SER			CLARK 63	ALTONA	MOODWORTH	COT DEPT.	COLUMBUS	HILL	WELLS	HODESON	10年 1000	- 17 CO	BUNUS	8	TARREST OF GOOD OF A STARTS	AND ENFOR UF A VARIETY	E-I	L'SD VARIETY MEANS (******		VTELD			) i		_	_	NODULE	PLANT				CLANTA				DISFASE	DISEASE	
RUMBER	4.5	71	30	Ş	9	, ~	C :	10	_	11		١. ٦	3.5	7	77	2	4.0	<del>-</del>		CTANDA	SIRNDRIC	-	5% LSD VA																				
																									_	1	01																

YEAR 1975

EXPERIMENT 403

YEAR 1975
EXPERIMENT 405
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STREET   S		LODGING	0	0 1	1.00	0.	0.0	. 5	0	. 7	0.	· ·		00	-		22.14%				c.	0	0.00		0			0 0				00.0
STEEN - ARRICOR - ARRICOR		LA	5	٠, ٦	- 1-	0	· -	2 .	00	8	9 ,		· ·	0 00	6		. 93		, ti 1 +	· 48+	+ 19.	.37+	. 46+	. 48	000	0		. 37	60.			0 0
PREPARTY   FREELY		NODUL	2	0		0	0 .	0 9						0 0	6.	9°	2.17	1)	-	-	. 45	17 0	.65		.48+	0.3	0.0	٠,	0.1	0.0	n c	. 0
The complement of the comple		NODULE EIGHT 1	-	Φ	· ~	1	- 9	.0	0	0.	<b>₹</b> °	- 0	. v		0		1.18	ROB=.			。33	. 60	9 # 0	.57	. 31	0,31	00	0	0	0	00	0 0
RETION - APPICA   COUNTY - THILDER	E TOBER, 19	NODULE MBER 2	o c	· c		- 0	° -	- (7)	- t	7	e et i	0 =	* =	2 .		3.52	7.14	0.	0	-	. 45+	,52+	000	.65+	.46+	0.0	٦.		0.30	0.2	7.0	. 0
R DATE PROTECTS  EATTTODE — 7 DEG. N  EATTTODE — 7 DEG. N  DATE PINNED — 1008 19, 1975  SOLL TYPE — 5ND 38%, SILT 20%, CLAY 42%, PH 5  FRYILITER USED (KG/H) — N 23.0, P 65.0  NADREST	ETHIOPIA - 1650 M - 37 DEG. ESTED - OC	NODULE UMBER 1	67.5	59°1	99.2	90.5	0.78	41.7	04.5	55.2	80.7	7.00	α4./ αμ.π	99.5	02.6	3.28	3.11	PROB	-	0	2	00 0	+79.	+ 17 77 8	37+	-	- 0	~	2	gran q	- 0	0
RETION - AFRICA   SITE - EACh	COUNTRY ELEVATI LONGITU ARIAM DATE HA 2%, PH 5	DAYS TO ATURITY	6.0	3°C	6.2	3.0	3 0	3.2	3.0	8.7	2.7	7000	7 . 7	8.7	ů		. 65			- 0	9	6 5	9 27 (7	। य	. 0	(A) A	000	0.		0		. 0
REGION - AFRICA   SITE - BAO	4. TEKLE	AYS TO FLOWER	m 4	- 0	. 0	9 2	, ,	6	0		O 0	» n c	0 -	7 .		9		TION	. 28	0.	, 31	0, 1			8400	6m C			0.1	<u> </u>		. 0
RECION - AFRICA SITE - BAKO LOOPERATORS - A. COOPERATORS - A. DATE PLANTED - JU SOIL TYPE - SAND FRETILIZER USED ( AMOUNT OF MOTSTUR AMOOD OF THE AMOUNT OF MOTSTUR AMOOD OF THE AMOOD OF A VARIETY MEAN COLUMBUS WELLS ALTONA CALLAND HORGON BORGSON BORGSON COLUMBUS WELLS ALTONA CALLAND HORGON BORGSON COLUMBUS WELLS ALTONA CALLAND HORGON BORGSON CORFICIENT OF VARIETY MEAN CORFICIENT OF VARIETY MEAN CORFICE BORGSON BOUGH WITHER 2 NODULE WITHER 2 NODULE WEIGHT 1 NODULE WEIGHT 2 PLANTS HERD TENDS PER PLANTS III	BDURAHMAN E 19, 19, 8%, SILT G/HA) - 1	IEI. G/H	93.2	20°2 53'5	56.8	50.1	57.6	66.8	60.1	75.1	# ° 6 6	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0000	15.8	44.9	30.91	35.15	RFI	1.00	200	0.23	0.10	70.07	0.14		0.07	26	29	0.02	200	000	00.00
CEE CO E F	REGION - AFRICA SITE - BAKO LATITUDE - 7 DEG. COOPERATORS - A. D DATE NANTED - JUL SOIL TYPE - SAND FERTILIZER USED (F AMOUNT CF MOISTIPF	Y VARIETY FR OR CROS	FORREST	WOODWORTH	AMSOY 71	Z 0	D D	M	WELLS	AZCTIA ()	CALLAND	NO N	CORSOV	) <del>[-1</del>		RD ERFOR OF A	COEFFICIENT SD VARIETY MRANS		<b>b</b> ∠	10	01	Z	2 3	3		LODGING	n I	PER	SEED	Ο		200

ENTRY	VARIETY		PLANTS	PODS PER		OUALITY	PERCENT	PERCENT	
NUMBER	OR CROSS	SHATTER	HARVEST	PLANT	WEIGHT	OF SPED	PROTEIN	OIF	
	FORPEST	1.00	196.75	10.00	19.38	3.00	40.3	17.0	
	CLARK 63	1.00	209.00	9.50	16.65	2.25	45.8	16.9	
	WOODWORTH	1.00	201.25	10.75	16.35	2.25	45.7	16.4	
	AMSOY 71	1.25	196.25	8.25	20.20	3.50	44.5	17.3	
	BEESON	1.00	195.50	8 . 25	21.65	2.75	45.5	16.4	
	COLUMBUS	1.00	193.00	8.00	16.77	2.00	46.2	16.0	
	HARK	1.00	187.00	8.25	18.48	2.50	47.1	15.4	
	WILLIAMS	1.25	204.50	12.25	20.63	2.25	43.7	16.4	
	WELLS	1.00	201.00	7.00	18.03	2.50	46.2	16.0	
	ALTONA	1.00	201.50	8.00	19.75	3,25	46.6	17.0	
	CALLAND	1.00	196.50	6.00	20.85	3.50	46.0	16.6	
	HODGSCN	1.00	189.25	5.75	20,60	3.00	45.1	16.8	
	BONUS	1.25	=	4.50	16.43	3,25	49.3	15.7	
	CORSOY	1.00	196.25	3,25	19,23	00.00	1	;	
	SWIFT	1.00		3,25	18.43	3.75	46.0	16.0	
	GPAND MEAN	1.05	197.18	7.53	18.89	2.65			
STANDA	DARD ERROR OF A VARIETY MEAN	0.11	5.30	0.90	0.89				
	COEFFICIENT OF VARIATION	21,13%	5.38%	23.98%	804.6	27.64%			
SDV	ISD VARIETY MEANS (********NS)	*****	****	2.58	2.53				
	S	ORREL	ATION	S	(+ - PROB:	=.05	++ - PROB=.01)	.01)	
		-0.04	0.26+	0.66++		0.02	-0.36++	0	00.00
	DAYS TO PLOWER	0.05	-0.09	0.16		-0.15	-0.13	- 0	00.00
	DAYS TO MATURITY	0.18	-0.14	0.16		0.12	-0.46++	0	
	NODULE NUMBER 1	0.13	0.03	0.13		-0.11	-0.10	0	
	gen.	0.05	0.15	0.10		-0.20	-0.27+		00.00
	WEIGHT	0.17	-0.08	-0.03		-0.07	-0.07		
	田田	-0.01	0.20	0.19		-0.08	-0.38++	0	00.00
	PLANT HEIGHT	0.02	0.02	0.37++		0.08	-0.48++	0	00.0
	LODGING	-0.08	0.23	0.37++		0.02	0.02		
	SHATTER	1.00	-0.10	0.06		0.15	0.0		00.0
	H 2	-0.10	1.00	0.22		-0.12	-0.16		
	_		0.22	1.00		-0.01	++ ## 0-		00.00
	MEI	9	60.0-	0.02		0.11	-0.07	00.0	00.00
	QUALITY OF SEED		-0.12	-0.01		1.00	+0°0-		
		0.0	-0.16	++ 11 0 0 -		-0.04	1.00		00.00
	4.7	00.00	00.00	00.00	00.00	00.0	00.00	1.00	00.00
	DISEASE III	00.00	00.0	00.00		00.00	00.00		1.00

YEAR 1975

EXPERIMENT 405

113	OR CROSS		YIELE KG/HA	DAYS TO	DAYS TO	0 2 1	NOD	NODUL		PLANT	1
2 E 0 T T			WII / DU	FLUWER	MAIURLII	NUMBER	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LODGI
201	PORREST		2246.70	00.09	131.00	403,00	661.50	3.03	5.60	66.25	
110	WILLIAMS		S	42.25	112.50	424.25	498.25	3.28	2 14	35.35	
	COLUMBUS		1828.28	0	130,50	406.00	648.75	3, 18	7.05	55 75	
***	CLARK 63		~	40.75	113.00	367.75	430-50	3,05	70.0	30.50	
12	HOODHORTH		1376.94	40.25	113.00	362.00	381.50	2.70	7 25	26.20	
74			1320.26	00" 11 11	128.00	229.50	352.75	2,05	7 2 2	20.60	
2	AMSOY 71		1319,43	41.75	126.50	350.75	354.50	2 20	10 to	00.00	
8	WELLS		1232,33	40-25	114.75	286 28	244 50	2.30	0.00	53. TO	
7	BEESON		1153.98	00-77	115 00	211 00	24400	20.7	3.13	21.15	
e	BARK		918.52	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	105.00	30.00	04/*/	2/07	2. E	38.50	
15	BOMUS		607 20	30.75	2000000	000000000000000000000000000000000000000	370.50	7.070	16.53	32.25	
-	ALTONA		37.100	07.00	130.25	344*00	450.50	2.90	4.87	39,25	
	20101		3000	38.75	113.00	320.00	24 1.00	2,68	2.30	27.75	
<b>†</b> (	BOUGAON CO.		228.38	42.50	127.00	272,75	235.75	1.85	1.90	21.00	
7	SHIFT		215.46	38.00	114.75	283.00	279.75	1.65	2.33	22 60	
٥	CORSOY		62,93	43.50	127.75	347.75	319.00	2.08	2 30	25.00	
	6 6	1						2		•	
400		HG 1	1099-91	7	12	337,58	394.43	2,65	3.99	35, 83	
STANDA		TY MEAN	92.94			29.89	55,37	0.21	F 77 0	1. 97	
1	<b>⊱</b> ⊣	RIATION	16.90%	2,13%	1.12%	17.71%	28.08%	15.92%	%67 TC	10 678	
N TSD AC	LSD VARIETY MEANS (*******	***= NS)	265, 63			85.44	158.26	0.60	1.40	5.62	0.2
		S	CRREL	ATION	r)	(+ - PROH=_	70.7	- 4 d d d - 4 d	1,		
								• 100			
		KG/HA	1.00	++ ## 0	+ -0.01	0.27+		,		0.75++	
		FLOWER	++++				O	_		0.61++	
		BATURITY	-0.01			0.01	0	'		0.39++	
		UMBER 1	0.27+			1.00	0		0.65++	0.314	
	_	NUMBER 2	0.48++	0.33+		++ #9 0		0.65		0.59++	
		WEIGHT 1	0.36++		'	0.82++		1.00		0.35++	
	-	WEIGHT 2	++ #5 *0			0.65++				0, 68+	
	PLANT	HEIGHT	0.75++								
		CODGING	0.45++		0	•				0 6644	
		SHATTER	-0.17	,	-0-	,	•			0.00	
	PLANTS E	TARVEST	0.21		0	0.27+				00.00	*
	PODS PER	PLANT	0.91++			0 23				77.0	
		METGHT	-0.06		0	0.60				0.78++	
		CARD AC	200		200	0.0-	07.0-		1	-0.19	1
		7777	0000		• •	-0.25	-0.16	ł	7	0. 03	
		7 1	÷ 00 00 00 00 00 00 00 00 00 00 00 00 00	,	0 0	++0#*0	0.41++	+ 0°52++	0.51++	0.23	,
		1;	0.00			0	00.00			00.00	
	N. C.	111									

DATE HARVESTED - NOVEMBER, 1975

REGICN - AFRICA
SITE - DEBRE ZEIT
LATITUDE - 8 DEG. 55 MIN. N
CCOPERATOR - W.W. YOHANNES
DATE PLANTED - JUNE 30, 1975
SOIL TYPE - SAND, CLAY, PH 7.0
FERTILIZER USED (KC/HA) - P 46.0
ANGUNT OF MOISTURE - 590 MM

58 MIN.

CCUNTRY - ETHIOPIA ELEVATION - 1860 M LONGITUDE - 38 DEG.

YEAR 1975

EXPERIMENT 408

63

TABLE

4454 6664 100 100 110 110 110 000 000

			0000
PERCENT 01L 14.9 16.1 17.1 17.1 17.7 18.0 17.7 16.6 16.7	18.		
PERCENT 42.4 43.1 47.1 46.5 45.2 45.2 45.2 45.2 45.2 45.3 46.3	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.000 0.000	000
CUALITY OF SEED 1.25 1.25 1.50 1.50 1.50 2.25 2.25 2.25 4.00	2 7	0.025 -0.25 -0.07 -0.07 -0.07 -0.04	000
HED HED 4888 898 HED 6988 8988 8988 8988 8988 8988 8988 898	38 II	1	0.00
ODS PER 1 36.75 36.75 34.75 34.75 34.75 32.00 22.00 22.00 23.00 17.25 17.25 8.00 8.00	6.50 6.25 18.95 17.17% 4.65	0.91++ 0.	0 0
PLANTS P 185.00 174.00 186.25 176.25 196.75 185.25 184.00 174.50 173.25		0.21 0.21 0.23 0.23 0.23 0.23 0.23 0.23 0.23 0.23	00 0
SHATTER 1.25 1.00 1.00 1.75 1.75 2.00 1.50	2001	10.00 10.00	0
	AND MEAN ETY MEAN ARIATION ***** C.	RG/HA ATURITY UMBER 1 UMBER 2 EIGHT 1 EIGHT 2 HRIGHT 2 HRIGHT WEIGHT 1 PLANT WEIGHT 1 WEIGHT 1	II
VARIETY OR CROSS FORREST WILLIAMS COLUMBUS COLUMBUS COLUMBUS COLUMBUS CALLAND AMSOY 71 WELLS WELLS HARK BONUS ALTONA	CRU  GRU  TCIENT OF V  HEANS (*****	YIELD DAYS TO DAYS TO DAYS TO NODULE N N NODULE N N NODULE N N N N N N N N N N N N N N N N N N N	DISEASE
ENTRY NUMBER 10 11 11 12 13 15 15 15	4 HODGS 2 SWIFT 6 CORSC STANDARD ERRC 5% LSD WARIETY		

YEAR 1975

EXFERIMENT 408

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	O MIN.	MBER,	
PIA 0 M	DEG. 2	- DECE	
COUNTRY - ETHIOPIA ELEVATION - 1860 M	LONGITUDE - 38 DEG. 20 MIN.	DATE HARVESTED - DECEMBER, 1975	
UNTRY EVATION	NGITUDI	TE HARI	
CO	LO S LEGA	DA	0.94
	I. TITA		8.0 P
	IN. N MITIKU	, 1975	- N 1
FILA	. 45 MINISTE	UNE 10, LOAM	(KG/HA)
AFRICA MBERE K	- 6 DEG	TED - J	USED
REGION - AFRICA SITE - DEMBERE KFILA	LATITUDE - 6 DEG. 45 MIN. N COOPERATORS - DEMISSIE MITIKU, TITAS LEGATOS	DATE PLANTED - JUNE 10, 1975 SOIL TYPE - CLAY LOAM	FERTILIZER USED (KG/HA) - N 18.0, P 46.0
REG	COO	SOI	FER

LODGING	000000000000000000000000000000000000000	0000000000		000000000000000000000000000000000000000
PLANT	74.75 61.25 63.25	44.50 44.50 71.25 71.25 66.00 64.00 40.25 50.25 50.25 50.25 1.00	51.05 2.03 5.65% 5.65% 0.12 0.34+ 0.34+ 0.17+ 1.00	0.00 -0.07 -0.07 -0.52 -0.52 -0.00
NODULE WEIGHT 2	5.00 4.05 4.05 5.05 5.05	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.65 30.65 30.67% 1.88 0.12 0.12 0.18 0.78 0.52 1.00	00.00
NODULE WEIGHT 1	3. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	7.000000000000000000000000000000000000	3.61 9.55 30.57% 1.58 1.58 -0.00 0.04 0.77 0.37 0.52 0.52	1 1 1
NODULE NUMBER 2	364.00 408.50 292.50 249.00	244,000 2244,000 351,000 114,50 182,50 361,50 272,50 322,50	0	0.09
NODULE NUMBER 1	236.00 333.00 260.75 320.75	2320.70 239.20 294.75 294.75 159.50 4449.50 220.75 226.75	304.80 49.44 34.44 31.32 141.32 (* - PROB 0.03 0.14 0.14 0.14 0.14 0.14 0.14 0.17 0.17 0.17	000000000000000000000000000000000000000
DAYS TO	170.75 165.00 164.50 166.00	169.50 169.50 168.75 168.75 169.50 170.00 170.00		0.00
DAYS TO FLOWER	111.50 79.25 85.75 54.25	78.75 86.25 86.25 86.50 86.50 86.50 76.25 77.25	A T I O N S 0.18	0.00 0.00 0.00 0.00 0.00
YIELD KG/HA	. 1054,38 1021,04 971,03 958,52	887.68 887.68 558.44 500.10 337.57 333.40 325.06 262.55	2942.38 29474% 2974% 251.77 00.13 00.13 00.13 00.12 00.12 00.12	0.05 0.03 0.32+ 0.00 0.00 0.00
			VARIETY MEAN OF VARIATION (********NS) (********NS)  IELD KG/HA S'S TO MATURITY DULE NIMBER 1 DULE NIMBER 1 DULE WEIGHT 1 DULE WEIGHT 2 LANT LONGHT	SHATTER HARVEER PLANT WEIGHT OF SEED II
VARIETY OR CROSS	HARDEE BOSSIER DAVIS WILLIAMS	H 266A PELIC	STANDARD ERROR OF A VARIETY COEFFICIENT OF VARIA LSD VARIETY MEANS (*******  YIELD K DAYS TO PL DAYS TO MATH NODULE NUMB NODULE NUMB NODULE WEIG	PLANTS PODS PER 100 SRED 07ALITY DISEASE DISEASE
ENTRY	25 55 12	V 8 4 4 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	STANDARD STANDARD	

																				00.00	00.00	00 -0	00.00	00.00	00.00	0.00	00.0	00.00	00.00	00.00	00.00	00.00	0.00	00.0	00.00	
PERCENT OIL	15.1	17.9	15.1	16.8	14.2	17.9	17.7	1	17.4	15.2	17.8	16.4	17.0	16.5					1)	00-0	00-0	00-0	00.0	0.00	0.00	00.00	0.00	00.00	00.0	00.00	00 0	00.00	00.00	00.0	1.00	
PERCENT	44.2	47.5	45.9	45.5	45.7	42.2	42.7	1 1	43.5	44.9	45.2	48.6	47.0	46.8					- PROB=.01)	00 0	00.00	00.00	00 00	00.00	00.00	00.00	00.00	00.00	0.00	00.00	00.00	0.00	00.00	1.00	00.00	
QUALITY OF SEED	3.25	2.25	3.75	2.50	2,50	3.00	2.75	2.50	3.00	3.50	3.75	4.75	4.75	00° h	0,000	2000	19.51%	0.92	++ 50*	++94.0-	-0.01	0.04	0.20	-0.02	0.30+	0.09	0.19	00.00	-0.02	0.02	-0.33+	-0.32+	1.00	00.00	00.0	
00 SEED C	14.35	16,35	20.05	19.80	17.00	18.50	16,33	18,93	16.20	17.73	14.65	15,10	15.95	10.68	16 54	80.00	. n . t . t . t . t . t . t . t . t . t	1.000	(+ - PROB=.	0.32+	++67-0-	-0-38++	0.05	-0.14	-0.08	-0.02	-0.52++	00.00	-0.02	0.36++	-0.07	1.00	-0.32+	00.00	00*0	
PODS PER 1	31.48	25.25	20.83	15,75	15.20	19,53	34,35	17.18	8.45	10.05	12,30	13.85	7.02	18.90	17 87	2 2 2	27.94%	7.13		0,52++	0.56++	0.15	00.00-	0.29+	0.07	0.30+	0.42++	00.00	0.22	-0.19	1.00	-0.07	-0.33+	0.00	00.00	
PLANTS P	143.75	178.25	210.25	196.00	190.50	190.50	168.50	208.25	182.50	170.75	157.75	185.00	193.75	188.75	4. 0. 0.	יו ר	8.70%	22.78	TIONS	0.03	-0.19	-0.15	90 0	$\circ$	00.0-	0		00.00	-0.12	1.00	-0.19	0.36++	0.02	00.00	00°0	
SHATTER	2.00	1.75	1.50	2.25	2.00	2.00	3,25	2.25	1.00	2.00	1.75	1.75	3,00	2.00	20 0	7.0	- 0	0.47	ORRELA	-0.05	0.05	-0.16	-0.15	60.0	0.04	0.04	10.0	0.00	1.00	-0.12	0.22	-0.02	-0.02	0.00	00.00	
																	PE	SN=***	υ	KG/HA	FLOWER	RATHRITY	UNMBER 1	VITMBER 2	FIGHT 1	FIGHT 2	HEIGHT	LADGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	H	1	
VARIETY OR CROSS	HARDFE	BOSSIER	DAVIS	WILLIAMS	TRACY	PORREST	COBB	SEMMES	WOODWORTH	HAMPTON 266A	CLARK 63		CALLAND	IMPROVED PELICAN		WHOTORY & GO GOOD GORGER				YIELD		0	(E)							PLAN™S	PODS PFR	100 SEED	OHALITY	DISEASE	DISRASE	1
ENTRY	2	7	9	12	7	œ	17	14	11	-	10	6	~	. ~		CTREAT	N W T C	5% LSD																		

YEAR 1975

EXPERIMENT 417

YEAR 1975	
EXPERIMENT 416	
TABLE 65	

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		PLANT		34.25														12.36%			0, 16	00	6.	. 2				13	0.38++		474	54	40	-0.52++
		NODULE WEIGHT 2		0.00	00	, 0	0	0.	0,0	÷ (	9 0	0	0	0	0	0	0	% 00°00°	•		0	0	0	0	0 0		0	C 1	0000	90	0	0	0	0
	975	NODULE WEIGHT 1	0	0.00	ပ ပ	. 0	0	0	0,0	9 0	0	0	0	C		0	0.	0.00%	1	* LENODE -	0	0	0	0 0	0 0		0	0	000	0	0	0	0	0
(Ex)	OVEMBER, 1	NODULE NUMBER 2	6 . 0	58.25	\ . C	79.7	4.5	5.7	5.2	,	5.7	7.7	3.0	9.2	S . Z	5.6	4.2	33,23%	7.0		0.23	0.39++	0.41++	0.13	- 0	00.00	++0#*0	10.05	-0.07	0.38++	-0.20	0	-0.16	>
- ETHIOPIA N - 1756 M E - 36 DEG	VESTED - N	NOMBER 1	7.5	89.50	02.5	0.80	16.0	2,0	73°57	36.0	0 . 4	0.0	.5	0.0	0.0	7.3	3,15	20.65%	(+ - PRORE		0.0	$^{CA}$	28	○ *			$\sim$	$\circ$	-0.18	- gan-	00	2	<b>30</b> 0	0
COUNTRY ELEVATIO LONGITUD	DATE HAR	DAYS TO	6.0	176.00		0.0	2.0	9	200	3.0	2.0	0 . +	3.0	0 0	> 0	7.	.00	* 00°0			-	6.	9		00.	0	20.4	- 3	<u> </u>	.77+	<u>د</u> .	<b>⇒</b> :	4 R	
G.E. ANDE	8 .	DAYS TO FLOWER P	7.0	90-06	7.0	7.0	0.0	9,0	9 6	5.0	5.0	0.0	0.0	0.0	•	. 4	000	* 00° 0	TIONS		2.	000	ه د د د	9 6	000	0.	78.	۵. م.	-0.07	.77	9 64		4 7	2
46 MIN.	NE 13, 197 KG/HA) - P E - 851 MM WANKYO	YIELD KG/HA	1130.23	866.01	-	~	$\sigma \circ$	T) 🗁	- 10	P	01	m 1	· ^ -	- 01	*	CC :	23.42	352,24	RRELA	,	_ (	4 4	. ~	2 ( 4	. 0	0	;	70	0.02	50	7 "	_ ~	35	113
FRICA MA 7 DE S - G	2 USED USED MOISTU	6 P 4 1 1 0 0 0 0														Σ 1	E: E		0	3	MG/HA	A PRO TON	MIMBER 1	NUMBER 2	FEIGHT 1	FIGHT 2	LODGING	SHATTER	HAPVEST	PI	METCHI OF CEED	3	II	
REGION - A SITE - JIM LATITUDE - COOPERATOR	DATE PLANT SOIL PH 6. FERTILIZER AMOUNT OF LOCAL VARI	VARIETY OR CROSS	FORREST	IMPROVED PELICAN	HAMPTON 266A		DAVIS	KWANKYO	N	CLARK 63	ROSSIER	GODINER	TERCA TE	HARDEE		GRANATA TO GOOD GARANTS	CORPETCIENT OR VACIS				CHELLI CHE SAKU	AVC TO	11.12				PLANT		PLANTS	PODS PER	ONALTAN	DISEASE	DISTASE	ひとはひとひ
		BNTRY	9 10	77	2		,,	15	.33				v 00	در		CHACKER	ON PORT OF	5% LSD VAR																
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R 100 SEED QUALITY PERCENT PERCENT T WEIGHT OF SEED PROTEIN OIL	16.00 1.25 42.6	16.50 1.25	14.00	16.50	17.50 1.00 47.5	16.00 1.50 47.3	20.00 2.00 45.3 15	20.00 1.25 46.3 17	18.50 1.75 46.8 15	17.00 1.00 46.8 18	16.00 3.00 41.7 19	18.25 1.25 46.5 17	16.00 1.75 47.1 14	18.25 1.50 17.4 47	3 17.17 1.45 7 0.41 0.20	n 78% 28	1.17 0.58	(+ - PROB=.05 ++ - PROB=.01)	-0.24 -0.16 -0.36++	0.32+ -0.47++	++ -0.50++ 0.48++ -0.45++	0.30+ 0.05 0.33++	-0.20 0	0.00 0.00 0.00	0.00 0.00 0.00	-0.47++ 0.54++ -0.40++	0.40++ 0.02 0.18	0.03 0.35++ -0.10	-0.05 -0.31+ -0.09	-0.56++ 0.16 -0.48++	1.00 0.01 0.32+	0.01 1.00 0.00	++ 0.32+ 0.00 1.00	++ 0.32+ -0.08 0.65++
PLANTS PODS PER HARVEST PLANT	198.00 16.50													9	188.87 11.33	274%	. 15	ATIONS	0.02 0.	-0.07 0.	-0.17 0.	-0.18	-0.07 0.38++	00.00	00.0	-0.19	-0.29+	-0.13	1.90	-0.15	-0.05	-0.31+ 0.	-0-060-0-	0.13
SHATTER	1.00	1.50	1000	1.05	1,25	1.00	3,75	1,25	1.00	1.75	2,50	1.25	1.25	1.00	AN 1.55			CORREL	HA -0.09														I -0.10	
RNIRY VARIETY NUMBER OR CROSS			d IMPROVED PRIICAN	COBR		7 DAVTS			11 CLARK 63	6 BOSSIEP	1 JUPITER		8 TRACY	HARDEE	GRAND MEAN STANDARD FRROR OF A VARIETY MEAN	OF VARTA	******)		YIELD KG/HA	TO		NODULE NUMBER				PLANT HFIG	LODGI	SH	PLANTS HARVEST	PL	WEI	OF S	DISEASE	

YEAR 1975

PXPERIMENT 416

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YEAR 1975

COUNTRY - GAMBIA ELEVATION - 26 M	LONGITUDE - 16 DEG. 40 MIN. W		DATE HARVESTED - OCTOBER, 1975 CLAY 8.0%, PH 5.6	80.5	
REGION - AFRICA SITE - YUNDUM	LATITUDE - 13 DSG. 20 MIN. N	COOPERATOR - 1.A.K. ANDERSON	DATE FLANTED - AUGUST 1, 1975 SOIL TYPE - SAND 57.2%, SILT 34.84, CLAY 8.0%, PH 5.6	FERTILIZER USED (KG/HA) - P 80.8, K 80.5	AMOUNT OF MOISTURE - 1267 MM

LODGING	1.25	1.25	1.25	1.000	1.00	1.12 0.17 30.27% ******	00.00 00	0.00
PLANT	32.50	35.50	33.75	62.00 28.25 39.00 27.00	25.75 49.25	35, 78 2, 98 16, 66% 8, 52	-0.12 0.51 0.02 -0.08 -0.03 -0.03 -0.03 0.15 0.15	0.00
NOBULE WEIGHT 2	6.71	3.51	6 6 6 7	6 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 .	3.95	5.34 0.66 24.87% 1.90	0.18 -0.12 -0.01 0.22 0.68 ++ 0.05 0.05 0.05 0.01 0.01 0.10	00.00
NODULE WEIGHT 1	2.31	2.71	2.20	1.75 1.40 2.06 2.35 2.21	1.96	2.02 0.20 20.21% 0.58 + - PROB=.	-0.17 -0.17 -0.17 -0.29 -0.52 -0.02 -0.01 -0.01	0.00
NODULE NUMBER 2	318.00 391.25 307.50	338.00	337.50	265.00 284.25 328.75 386.25 276.50	353.00 299.00	309.60 32.09 20.73% 91.71	+ + + + + + + + + + + + + + + + + + +	0.00
NODULE NUMBER 1	226.75 199.25 192.00	172.00	196.75	227-00 158-00 164-50 293-00 201-25	223.75	209.15 24.55 23.48% 70.17 (+ - PROB	-0.07 0.07 0.26 1.35 1.35 1.35 1.35 1.35 1.35 1.35 1.35	00.00
DAYS TO ATURITY	96.50 97.75 76.00	91.25	91.25	91.75 91.00 110.00	126.00	100.03 1.37 2.75% 3.93	-0.644+ 0.72++ 0.726+ 0.266+ 0.033- 0.037- 0.044+ 0.566+ 0.866+ 0.966+ 0.966+ 0.966+ 0.966+	0.00
DAYS TO FLOWER M	30.00	30.00	31.50	30.00 32.00 30.00 31.50	38.00	31.93 0.56 3.52% 1.61 T I O N S	-0.55 -0.07 -0.07 -0.17 -0.18 -0.18 -0.55 -0.22 -0.22 -0.25	
YIELD KG/HA	935.60 586.78 578.87	576.78 574.28 570.28	533.86 476.35	465.09 419.25 320.48 262.14	91.68 58.34	459.93 68.66 29.86% 196.25	1.00 -0.55+ -0.07 -0.07 -0.20 -0.18 -0.18 -0.69	0.00
						MEAN MEAN (TION K=NS)	KG/HA PLOWER MUMBER 1 MUMBER 1 WUMBER 2 WEIGHT 2 WEIGHT 1 WEIGHT 2 LODGING SHANTER WEIGHT 1 WEIGHT 0 WEIGHT 0 WEIGHT 0	III
VARTETY OR CROSS	DAVIS WILLIAMS WOODWORTH	SEMMES COLUMBUS TRAC	CLARK 63 ROSSIER	FORREST CALLAND HAMPTON 266A	HARDEE IMPROVED PELICAN	GRAND STANDARD ERROP OP A VARIETY COEPPICIENT OP VASILISD VARIETY MEANS (*******	YIELD DAYS TO DAYS TO NODILE NODILE NODILE PLANT PLANTS PODS PER 100 SEED	DISEASE DISEASE DISEASE
EVTRY	13	200				STANDARD		

																			:		00.00	0.00	00 0	0.00	00.00	0.00	0.00	0.00	00 00	0.00	00.00	0.00	00.00	0.00	00.00	0.00	
PLRCENT	21.8	21.3	21.2	20.6	21.1	19.6	20.1	21.0	21.1	20.2	20.4	21.9	21.5	21.3	20.3					1)	00.00	0.00	0.00	00.00	00.00	00.00	00.00	00.0	00.00	00.00	00.00	00.0	00.00	00.00	00.00	1.00	
PROTEIN	46.3	48.1	46.1	47.6	45.8	47.1	47.4	45.6	46.7	46.7	48.5	47.5	46.4	47.1	47.5					- PROB=, 0.	0.02	-0.18	-0.00	0.03	0.07	0.35++	0.08	-0.10	-0.26+	60.0	-0.01	-0.28+	0.19	-0.00	1.00	00.00	,
OUALITY OF SEED	3.00	2.50	2.25	3.00	3.00	2.75	2.75	2,75	2.75	4.50	00.4	4.00	3.75	4.50	4.00	3.30	0.33	20.11%	0.95	++ 50.	-0.54++	0.25	++ 77 0	60.0-	0.10	-0.07	-0.04	-0.13	-0-17	0.34++	-0.19	0.05	++95.0-	1.00	00.0-	00.00	
OO SEED OO	14.56	15,17	15.39	11.71	13,63	14.66	14.42	12,54	13.12	8.90	12.70	13.29	11.95	12.21	9.54	12.92	1.02	15.85%	2.93	(+ - PROR=.	0.43++	-0.27+	-0.37++	0.08	0.09	0.21	0 3	70-0	00 0	-0.18	0.05	-0-04	1.00	++97.0-	0.19	00.00	
ODS PF3 T	21.05	15,88	15,58	23.90	16.20	15.28	14.85	20.72	41.65	17.47	16.50	20.40	22.30	26.50	23,55	20.79	1.75	16.80%	4.99		-0.14	0.66++	0.56++	0.25	-0.08	-0.01	-0-17	0.61++	0.12	0.52++	90.0	1.00	+0°0-	0.05	-0.28+	00.0	
PLANTS PO HARVEST	126.00	114.00	105.50	118.25	118.50	114.00	92.75	119.00	111.25	113.75	110.00	108.50	118.50	88.00	110.00	111,20	8.34	15.00%	***	TIONS	0.48++	-0.22	-C . 14	0.03	0.13	0.03	0.10	0.15	0,13	+0°0-	1.00	0.06	0.05	-0.19	-0-01	00.0	4 4
CHATTER	50	25	0.0	75	50	0.0	2.5	00	0.0	1.00	25	00	75	0.0	75	2.20		20.77%	*	PRELA	-0.60++	0.56++	0.86++	0.36++	0.16	0.11	0.01	0.24	-0.02	1.00	n0°0-	0.52++	-0.18	0.34++	60.0	00.00	- 6
																IND MEAN		PEC	*	C U	KG/HA	FLOWER	IATURITY	NUMBER 1	III MARR 2	RIGHT	EIGHT Z	HEIGHI	L CDG I NG	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	<b>-</b>	II	
VARIETY OR CROSS	DAVIS	WILLIAMS	WOODWORTH	の国際国際の	COLUMBUS	TRACY	CLARK 63	BOSSIER	JUPITER	FORREST		HAMPTON 2664	COBR	HAPDFE	IMPROVED PELICAN		ANDARD ERROR OF A VARIET	2.,	VARIETY MEANS (****			O E		NODULE N	NETROON	E HIDOUN	E E E E E E E E E E E E E E E E E E E	PLANT				E 0	100 SEED	OBALITY	DISEASE	DISEASE	1 1 1 1 1 1
NUMPER	7	13	12	15	10	α	11	9	-	6	14	2	۲	m	ħ		STAND		5% LSD																		

YEAR 1975

EXPERIMENT 399

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TABLE

	LOUGING	1.00 1.25 1.25 1.25 1.25 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	
	PLANT	34.10 53.10 36.23 36.23 31.23 44.20 66.23 31.23 44.20 62.35 29.35 71.97 7.55 7.55 11.97 7.55 10.03 10.03	
	NCDULE WEIGHT 2	1.95 1.95 2.98 1.75 2.95 2.95 1.66 1.66 1.78	0.00
Ŋ	NODULE WEIGHT 1	.67 29 988 888 888 888 62 62 62 62 62 62 62 62 63 64 64 62 62 63 64 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65	
11 MIN. W	NOCULE NUMBER 2	121.75 216.50 216.50 220.25 2128.75 128.75 192.00 86.75 151.75 151.75 151.75 151.75 165.25 300.75 300.75 72.03 72.03 10.07 10.07	0.00
GHANA N - 60 M E - 0 DEG.	NODULE NUMBER 1	73.25 84.50 66.25 106.25 106.25 99.03 99.03 95.25 113.25 154.00 82.6) 10.26 7.27 10.26 10.26 10.39 10.39 10.39 10.30 10.	0.30 0.20 0.20 0.32 0.32 0.04
CCUNTRY ELEVATION LONGITUDE DATE HAR	DAYS TO	95.53 92.00 94.25 94.25 94.25 97.75 97.25 97.25 99.00 100.00	0.10
	EAYS TC PLOWER	34,000 28,000 30	2001
# 39 MIN. N . DADSON AY 22, 1975 RE - 372 MM TIONS - 6 CES 407	YIELD KG/HA	3158.96 3116.87 3038.94 2888.44 2888.44 2888.44 2561.76 25561.76 2429.24 2472.62 24729.62 24729.62 24729.62 24729.62 24729.62 24729.62 2530.53 2330.47 2530.53 2530.53 2665.94 665.94 665.94 665.94 665.94 665.94 665.94 665.94 665.94 665.94	0.07
FRICA SDEG FRBED - M SD - M SD - M IOISTU		GA  ELICAN  GRAND MEAN  OF WRITTY MEAN  I CF WARIATION  (*******=NS)  (*******=NS)  (********  CLILD KG/HA  IS TO FLCWER  IS TO	HARVEST PLANT WEIGHT CF SEED
REGION - AFR SITE - LEGON LATITUDE - 5 CCOPERATCE - DATE PLANTED SOIL PH 5.2 AMCUNT OF MC NUMBER OF IRI	VARIETY OF CROSS	DAVIS WILLIAMS COLUMBUS COLUMBUS FORREST CES 407 HARDEE WCODWORTE HAMPTON 26 CLARK 63 JUPITER COBB BOSSIER IMPROVE P TRACY SEMMES COEFFICIEN NC COEFFICIEN NC	PLANTS POLS PER 100 SEE
	ENTER	100 100 100 100 100 100 100 100 100 100	

QUALITY OF SEED	2000 2000 2000 2000 2000 2000 2000 200	2.38 0.43 1.22 1.22 -0.09 0.00 -0.00 -0.13 -0.13 -0.06 -0.00 -0.00 -0.00 -0.00 -0.00
100 SEED WEIGHT	20.29 20.29 19.47 17.67 20.78 19.34 19.27 21.20 19.27 22.22 19.61 21.47 22.33	19.65 0.89 0.89 2.54 ++ - PRC 0.01 0.15 0.32 0.32 0.02 0.02 0.02 0.02 0.02 0.02
POES PER PLANT	29.25 37.25 37.25 34.75 34.75 34.75 34.75 37.72 37.72 37.72 37.72 37.72 37.72 37.73	33.12 3.24 19.57% 9.25 PROB= 05 0.34 -0.24 -0.24 -0.24 -0.34 -0.31 -0.32 -0.32 -0.32 -0.32
PLANTS	178.75 130.75 193.50 134.00 145.75 156.00 155.50 156.50 154.25 114.25 114.25 114.25 114.50 115.50	153.92 6.84 8.89% 19.52 0.07 0.02 0.02 0.29+ 0.02 0.02 0.29+ 0.017+
SHATTER	000000000000000000000000000000000000000	Z
	z	RIETY MEAN *****=NS)  ******=NS)  R E I A T I  R E L A T I  R E L A T I  R E L A T I  R G/HA  O MAURITY E NUMBER 1  E WEIGHT 1  F WEIGHT 2  T L GLGING SHARVEST  S HARVEST  B REIGHT  C C SEED  V C F SEED
VARIETY OR CROSS	DAVIS WILIAMS COLUMBUS FORREST CES 407 HARDTON 266A CLARK 63 JUPITER COEB BOSSIER IMPROVED PELICAN TRACY SEMMES	ETROR OF A VA OEFFICIENT OF ETY MEANS (** C O R OEFFICIENT OF T DAYS T DAYS T DAYS T NCDUL NCDUL NCDUL NCDUL PLANT POUS PE 100 SEE
NORFE	L.05 Q.5 W.Q.Q.E.L. D.A.3 Q.D.	STANDARD CST ISI VARI

	LOEGING	1.00	1.00	0.0	00	0.	0	0.0	. 0	0.0	,	0	00.00		0	0.	000	0	0.0	. 0	0.	0.0	0	0	0
	PLANT	20.50	2.7	3.2	2.2	7.2	6.2	7.5	6.7	6.5		200	24.29%		9	. 10	* 00 ° 0	0 *	0.0		0	0 "	+11.	.62	. 7
	NODULE WEIGHT 2	0.00	0.0	0.0		0 0	0	0, 1	0.				0.00%	01)	0	0,0	00.00	0	0 0	9 0	G.	$^{\circ}$	0	0.	0
75	NODULE WEIGHT 1	0.00	0,0	0,0		0,0	0	00	0	0.0		0	8000	+ - PRCB=.	0.	?	0000	0.	٠, c	0	0.	200	0	0.	0 1
10 - 1.	NCDULE NUMBER 2	0.00				9 0		9 0		0 (	,	.00	0.00%	+ 90 = +	0		0000	0.	2 0	0	0.	. c	0	0.	0
IVORY C - 0 M - 4 DEG STED -	NOECLE NUMBER 1	0.00	0,0	0.0		0	0.	0.0	0	0.0	_	0	% 00°00°0	(+ - PROB	0.0	0.0	1.000	0,0	20	0.0	?	. c	0	0,1	. !
S T T T H H	DAYS TO	88.25	1.7	7.0	900	1.5	7.0	4.7 6.7	7.7	0°50		2.84	6.65%	S	(C)	41+	000	0	0	9	0	> m	9	7 0	32
70 Y G. EDI 5	DAYS TO FLOWER	31,75	2.0	0.0	7.7	6. C	0 .	5.5 2.2	3.0	0.0	0,	3.79	5.08%	ATION	-	0.0	0.00	0,0	. 0		0.0		0	G (	7 1
. 15 MIN. N D. ASSA, K. ULY 26, 197	YIELD KG/HA	1046.25	010.0 985.8	33,37	37.5	04.5	52.5	74.1	57.0	00.00	16.1	9.41	75.69%	ORREL	0.	<b>-</b> ∩		0,0	0	9 .	0	7	+11.	9.	٦į
REGION - AFRICA SITE - AEIDJAN LATITUDE - 5 DEG. COOPERATORS - A. E EATE PLANTED - JU SCIL TYPE - SAND	ENTRY VARIETY NUMBER OR CROSS	COBB 1 JUPITER	CALLAND	2 HAMPTON 266A E TPACY	CLARK 63 TMDDOWED DET TON	WOODWORTH	DAVIS	S HAKDEE E BOSSIER		10 COLUMBUS 9 FORREST	OK KAR D	VARIETY	COEFFICIENT OF VARIATION 5% ISI VARIETY MEANS (******=NS)	U	YIELD KG/HA	Σ	I.E.	NODULE NUMBER 2	WEIGHT		ICEGING		PER	100 SEED WEIGHT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

1		
QUALITY OF SEED	######################################	# # 3 . 2 8 # # 3 . 2 8 # # 3 . 2 8 # # 3 . 2 8 # # 3 . 2 8 # # 4 # 4 # 4 # 4 # 4 # 4 # 4 # 4 # 4
100 SEED WEIGHT	15.00 23.75 21.00 23.25 29.25 18.75 14.25 16.00 14.75 18.25 12.75	17.87 11.67% 2.98 * 4 - PBO 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
PODS FER 1	3.53 3.53 3.53 3.53 3.53	6.89 2.09 60.66% 5.97 PROB=.05 0.77++ 0.05 0.00
PLANTS I	243.50 240.25 240.25 246.75 270.50 270.50 270.50 230.25 249.50 231.50 231.50 231.50 231.50 231.50	232.07 20.92 18.03% ****** (+ - P 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SHATTER	000000000000000000000000000000000000000	N N N N N N N N N N N N N N N N N N N
		GRAND MEAN VARIETY MEAN OF VARIATION (******=NS) R R E L A T I O RG/HA S TO FLOWER 5 TO FLOWER 5 TO MATURITY 6 TO MEEN T 6 TO MEEN T 6 TO MEEN T 7 TO MEEN T 7 TO MEEN T 8 TO MEIGHT 8 TO MEIGHT 8 TO T 8 TO MEIGHT 8 TO T 8 TO MEIGHT 8 TO T 8 T 8 TO T 8 T 8 TO T 8
VARLETY OR CROSS	COBB JUPITER SEMMES CALLAND ILAMPTON 266A IRACY CLARK 63 IMPROVED PELICAN WOODWORTH HARDEE BOSSIER WILLIAMS COLUMBUS	STANDARD ERROR OF A VARIETY COEFFICIENT OF VARI ISI VARIETY MEANS (******  C C R R E L  YIELD DAYS TO MAT NODULE NUM NODULE WEIL NODULE WEIL PLANT LOI ENTER
ENTEY	81 - 81 - 51 4 8 - 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	STANDAR ISI VA

			LOEGING	0.0	1.03	, 0	0	9 0	. 0	0	$\circ$ $\circ$		0.	?	0	% 00°0	•	•		0	0.1	.0	0.	0	0	0.0	00.00	0
			PLANT	5.2	21.98	0.7	6.4	ລຸດ	0.44	7 ° 6	0 0 0	9.6	7.6	-	- 0	10.17%	•	,	. 65	9 0	٦. ت	0	0,0		0.		10.0-	0.1
			NODULE WEIGHT 2	0.0	0.00		0,0	9 0		0	90		0.0	9	0,	% 000000000000000000000000000000000000			, 0	0	20	0	C	. 0	0	0,0	00.00	0
		975	NODULE WEIGHT 1	0.0	0.00	. 0	0,0	, 0	0	0,0	, 0	0	0.0	2		% 00°.	CB# •		. 0	0	? 0	0,	<u>،</u> د	. 0	0	0,0	00.0	9.1
	ET SIS	OVEMBER, 1	NCDULE NUMEER 2	000			0,0	90	0	0 0	. 0		0,0	2		* 000°0	E=. 0 5 +-	<		0,0	90	0.		0	0.	0 0	0.00	0
	- IVORY CC IN - 300 M IE - 5 DEG.	VESTEL - N	NODULE NUMBER 1	00.00	8 1	7 8	0 1	0 0			9 9				0.0	% 00°0	(+ - PROE	-	, 0	0,0		0.	٠ :	0	0	<u>ء</u>	0.00	0.1
AR 1975	COUNTRY	DATE HAR	SIL	83.00	7.0	2.0	0.0	1.0	0.0	, a	. 0	9.3	0.0	•	9 1	0.00%	vs vs	0	7 .	0.5		0,0	2 4	.00	0.	2.0	101	- i
61 YE		ا ا ا ا ا	EAYS TC FLOWER	39.30	0.0	0.0	0.0	2.3	0 0	0 0	3.0	0.0	0 0	•	1.0	0.00%	TION		00		0.00			00			0	
PERIBENT 4	30 MIN ASSA,	Y 25, 19	YIELD KG/HA	1020.83	70°8 30°0	37.5	8°, /	10.4	12.5	8.7	0.4	31.6	12.9		8.7	22.29%	) R E E L A		~ CT (	00	0	00	20	0	0 =	73+	-0.11	- i
TABLE 69 EX	REGION - AFRICA SITE - BADIKAHA LATITUDE - 9 DEG. CCOFERATOFS - A.D.	DATE PLANTED - JUI SCIL TYPE - SLLT	VARIETY OR CROSS	FORREST	DAVIS SEMMES	COBB	WILLIAMS		HAMPTON 266A CTARK 63	IMPROVED PELICAN		CCLUMBUS	TRACI		GRAND MEAN NIARD FEROR OF A VARILTY MEAN	COEFFICIENT GF VARIATION VARIETY MEANS (******=NS)	0 0	YIELD KGZHA	DAYS TO FLOWER	NODULE NUMBER 1		NODULE WEIGHT 1		LCDGING	DIANTS HADDEST	POUS PER PLANT	100 SEED WEIGHT	1
			RNTEY	O M E	15	us e	13	¥	11	7	17.0	၁ ၀	14		STANEA	V ISI V												

CCNTINUED)	ID QUALITY IT OF SEED	0		. ()	0	10		8	· (1)	3	5	5	0	3	5	8	^	3 (	00.0	96	<b>-</b>	PROB=.01)														34++ 1.00
(00)	100 SEED WEIGHT	13.9	m	15.9	15.4	14.4	7	18,5	3	5.	16.6	Ċ		7	16.4	. 9	~	-		•	-	++			0.284	0.0	0 0	0.0	0 0		3.3	0.0	,	-0.36++		0.31
YEAR 1975	PODS PER FLANT	10	n S	2.3	2.5	3.7	14.75	0.2	0.2	1.5	7	0	7	7	0	7	11.47		2.0	×61.6×	# C * C	PROB=.05		), 41++	0.21	),))	00.00	0.00	00.00	0.46++	00.00	0.00	3.38++		-),36++	-0.11
461 Y	PLANTS	188.75	182,50	195, 25	175.25	191,25	176.00	179.50	185.75	179.50						162,50	176.82	(* C	7 0	10° 10%	75.50	+)	0.45++	3.33+	0.09	0.10	0.00	0.00	00.00	0.16	00.00	00.00	1.3)	0.38++	-3.23	-0.12
XFERIMENT	SHATIEF	1.00	1.00	1.00	1.00	1.00	1.))	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.))	0.00	900	0 0	00.0	C N S		ſ.	0.00	·	0	0	0.	0	0	0	0	0	_	0
ਜ਼ 69												NA					GRANE MEAN		O L L	0 T T W T W W W W W W W W W W W W W W W	} } 6	KELATI	KG/II	FLOWE	MATURITY :	NUMBER	NUMBE	WEIGHT	36		LCDGING	SHATITER				
TABLE	VARIETY CF CROSS	FCRRES1	HARDER	DAVIS	SEMMES	COLE	JUPITER	<b>-</b>	CSSIER	O	LARK 63	IMPROVEL PELICA	ROODWORTH	COLUMBUS	FACY	CALLAND		V	F C F N	TTV MIANC /*	T) CHREN ILLING	CCK	YIELD	DAYS TO	DAYS TO	NCEDER	NOLULE	NCDULE	NCDOIE	FLANT					TOUR SEED	Ħ
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ENTEY	U1 i	m i	- 1	47 1	41 1	fee f	·) ·	ا ب	. 7		J (	7 0	٠ (	 4	7		STANI		Tol 62	3 4															

R 1975
74 YEA
XPERIFENT 4
70 E
TABLE

	REGION - AFR SITE - DEKOK LATITUDE - 1 CCOFERATOES DATE PLANIED SOIL TYPE -	ICA AHA O I	. ASSA, R. LY 31, 197	DIALLC 5	COUNTEY ELEVATIO LONGITUD LATE HAR	- IVORY N - 300 E - 5 DE VESTEE -	CCAST G. 30 MIN. NOVEMBEE.	1975			
FULLER	VARIETY OF CROSS	1 0 0 1	YIELE KG/HA	LAYS TC FLOWER	DAYS TO	NODULE NUMBEE 1	NODULE NUMBER 2	NOEULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LOEGING
,											
10	COLUMBUS		50.0	3.0	8.0		0.	0.	0	တ္	0
- "	CLARK 63		14.5	3.0	4.0		0.	0.	0	4.7	0
חת	FORREST		91.6	9,0	0 0		0, 0	0	0	7.8	0
1	これたしたのでは、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ		0.20	) c	2 0		? 9	÷ (		א מ מינ	0 0
7	DAVIS		802,08	37.00	00.00		000	00.0	00.0	11./3	00.1
w)	CCBB		43.7	3.0	7.0		2	2 0	, ,	0 9	2 0
_	JUEITER		79.1	1.0	0.0		0	0		9.0	0 0
12	WCODWORTH		77.0	0.0	3.0		0	0	0	8 3	0
13	WILLIAMS		9 * 9 3	3.0	8.0		0.	0.	0	8	0
ω			56.2	3.0	0.4		C·	0.	C	5.8	0
2	HAMPTON 266A		35.4	3.0	8.0		0.	0	0	4.1	0
4	CALLANE		87.5	3	8.0		.0	0	0	3	
. ب			81.2	3.0	8.0		0.	0.	0	3.8	0
3	IMPROVEC PELICAN		70.8	7.0	0 0		0	0	0	9°5	0
	GRANE	MEA	736.94	34.27	88.13	00-0		0	۳,		
STANEA	STANDARD FEBOR OF A VARIETY	MEAN	111, 10	0.0	0.0	0	00.00		00-0	20.02	00.0
	COEFFICIENT OF VARIATI	0	30,15%	0.00%	0.	0	0	0.0	0 0	9 *	0
N ISI KS	VARIETY MEANS (*******	S	*****	0	0			00.	0.0	6.89	00 00
		υ	ORBELA	NOIL	ß	(+ - PRO	E=. 05	++ - PECB=	.01)		
	VIELD	K G / H A	1.00			0	C	<	<	76	<
	124	3 E	0.02		200	20	, –	, 0	, c	ე ი *	• •
		URITY	0.04	0.84++	00	0	00.00	00.0	0000	37	
	NODULE NUM	BER 1	0.00	0	0	0	0	0	0	00	0.0
		BER 2	0.00	0	0	0.	0	0	0	0	0
		GHT 1	00.00	0	0	0	0	0.	0	0.	0
		GHT 2	0.00	0	0	0		0	0.	0.	0
	PLANT H:	EIGHT	0.36++	3	m	0.0	0	0.	.0	0,	0.
	IC	DCING	0	0	0	0.	0	0.	0.	0.	0
		ATTER	0	0	0	?	0	0.	0	0	0.
	NIS	RVEST	63	-	0	0	0	0.	0.	• 2	0.
		PLANT	4+6E*0	30	.27	0.00	0	0.	0	. 4	
		EIGHT	0	-0.52++	,32	0	0	0.	0	-	0.
	OUALITY OF	SEED	0	3	L.	0	0.	0.	0,	0.	0.
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1   1   1   1   1   1   1   1   1   1				

1																																		
UED)	QUALITY OF SEEL	1.00	000-	2 00	1.00	3.00	2.00	3.03	2.00	2.00	1.00	2.00	1.00	1.00	1,30	1.60	00.00	% O D = O	00.00	PROB=.01)	-0.03	0.32+	0.52++	00.00	0.33	00.00	0.33	0.08	0.30	00.00	-0.11	0.12	0.12	00 * 1
(CCNTINUED)	100 SEED WEIGHT	19.48	16.33	16, 25	15.48	18.03	17, 18	15.73	19.83	18.50	19.98	16.73	21.00	.15.20	10.58	16,96	0.15	1.78%	0.43	++ - PB(			•								-0.15		1.05	71.0
YEAR 1975	PODS PER PLANT	11.75	10.50	13, 75	10.50	11.50	12.75	12.75	8.75	11.50	9.25	10.00	10.25	9.25	13.50	11.27	1.48	26.26%	****	PROB=.05		0.33+	0.27+	00.00	00.0	00.00	0.00	0.45++	0.03	00.00	0.23	1.00	-0.28+	71 00
474 YE	PLANTS	138.00	121.50	126.25	135.50	142,25	132.00	116,25	117,50	104 . 25	121.50	126.00	128.75	122.00	138 . 25	127.62	10.48	16-42%	****	+)	0. 63++	0.15	0.02	00.00	00.00	00.00	0000	0.28+	0.00	00.00	1.30	0.20	-0.15	
EXPERIMENT 4	SHATTER	1.00	00.1	1.00	1.00	1.00	1.00	1.00	1.00	1-00	1.00	1.00	1.00	1,00	1.00	1.00	00.00	0.00%	00.00	C N S	00.00	0.00	00.00	00.00	00.00	00.00	00.00	00.00	00.0	1.00	0.00	00°0	0.00	20.0
TABLE 70 EX	ENTEY VARIETY NUMBER OF CROSS		11 CLARK 63				COBB		12 SCCDWCBTH	13 WILLIAMS	8 IRACY	2 HAMPTON 266A	14 CALLAND	& BOSSIER	4 IMPROVEE PELICAN	GRAND MEAN		CCEFFICIENT OF VAELA	"man"	CCRREIATI	YIELD KG/HA	DAYS TC FICWER	DAYS TO MATURITY			WEIGHT	謎		TCDGING		HA		D I G	OUALITY OF SEED
1																																		

UPC - CEPS	
DOUBLE NO DEC	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Table 11	

	DVIDIOI	00000		000 0000	000000000000000000000000000000000000000
	PLANT	0.00	222 222 222 223 233 30 30	68.17	0.06 ff f f f f f f f f f f f f f f f f f
	NCDULE EIGHT 2	2227	000000000000000000000000000000000000000	0.2 0.2 0.1 0.1 0.0 0.0 0.0 0.0	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
Ŕ	NODULE REIGHT 1 W	1000	000000000000000000000000000000000000000	), 0 0, 0 0, 0 10, 0 10, 0 10, 0	0.21 0.864 1.0084 1.00864 1.00864 1.0086 1.0
AST W CTOBER, 197	NCDUIE NUMBEE 2 W	L. 2. 2. 4.	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 C C C C C C C C C C C C C C C C C C	0.22 0.45 0.45 0.03 0.29 0.00 0.00 0.03 0.03
- IVORY CCA N - 250 M E - 6 DEG. VESTEE - CC	NOBULE NUMBEE 1	r r o c o	2.75	000 P-m* H	0.20 0.22 1.02 1.02 1.05 0.86 0.34 0.34 0.03 0.03 0.03 0.03 0.03 0.03
CCUNTRY - ELEVATION LONGITUDE DATE HABV	DAYS TO	0.00	102.00 103.75 97.00 101.00	101.0 82.0 82.0 96.7 0.9 1.2	0.17 1.37 1.00 1.21 0.21 0.21 0.15 0.00 0.00 0.00 0.02 0.02 0.02 0.02 0.0
TIDIANE 75	LAYS TC FIOWER	23.7	29.50 34.25 28.33 28.33 28.00 28.00	30.55 28.0 30.1 30.1 1.2 1.2 1.2	0.28 1.33 1.33 1.33 1.33 1.34 1.34 1.35 1.46 1.36 1.36 1.36 1.36 1.36 1.36 1.36 1.3
N ASSA, S. GUST 1, 197	Y12LE KG/HA	92.2 69.0 46.2 77.5	687.50 672.00 638.20 633.25 563.50	50.2 66.7 66.7 74.0 8 40.8 8 40.8 8 E E	1.00 0.28+ 0.22 0.22 0.21 0.21 0.01 0.00 0.00 0.07 0.07
N - APRICA - GAGNCA UDE - 6 DEG. RATCES - A.D PLANTED - AU	1 2 7 8 1 6 6 8 1			MEAN MEAN MEAN *=NS)	KG/HA FLOWER NUMBER 1 NUMBER 1 NUMBER 2 NEIGHT 2 HEIGHT 2 HEIGHT 2 HEIGHT 1 PARTER HARVEST PLANT WEIGHT 0 FELONG SHANT
REGION - APSITE - GAGNIATIODE - CCCPERATCES DATE PLANTE SCIL TYPE -	, , , , , , , , , , , , , , , , , , ,	3 JS EL PELICAN	266A 53	_	YIELD DAYS TO DAYS TO NCDULE NCDULE NCDULE NCDULE PLANTS POLS EEF 100 SEED
	VARIETY OF CROSS	BCSSIER JUPITER COLUMBUS IMPROVEL FORREST	AMPTO CBB ARDEE AILAN LARK AVIS	SEMMES TPACY TPACY WOODWORTH ANDARD ERROR OF A COFFRICIENT SI VARIETY MEANS	
	FNTEY	9 <b>- 5</b> 2 2	(AR) (D) \$4 6 6 (D)	E I	

	1																																		
UEL)	QUALITY OF SEED	2.00	1.00	3.00	1,50	2.50	2.25	3.00	1.50	3.10	3.00	2.00	3.75	2,75	3,25	3.50	L	50.7	21 27 3	0.77	ROB=.01)	-0.29+	-0-70++	++97.0-	-0.17	0.02	-0.08	), 13	++0 0 0 0 -	00.00	0.21	-0.05	-0.41++	0.28+	. 0
(CCNTINUEL	100 SEED WEIGHT	16.25	16.25	20.00	14.25	18.50	21.25	19.00	16.25	25.53	20.00	$\infty$	18.00	17.00	17.75	17.25	~	? 0	0.0	2.55	++ - PB	0.07	-0.53++	20	-0.21	0.03	-0.25	).06	-0-11	00.00	0.14	-0.02	-0.09	0 (	1.28+
#AR 1975	PODS PER FLANT	16,25	16.50	14.25	16.25	11.50	14.00	13.00	18.00	7.5)	8.50	10.25	00.6	10.00	8.3)	7.00	9	, 4	2 =	7 . 45	PROB=.05		7 0	0.0	0.04	0.11	0.01	0.37	0.52++	00.00	-0.24	. 2	1.00	0.09	
364 Y	PLANTS HARVEST	168.75	174.75			5.	193,50		7 .			188.75			215.30	0	0	1 L	7 4	· 华 · 华 ·	+)	-0-10	-0.06	-0.27+	0.03	. 2		0	0	0		0	2	-0.02	•
XPERIMENT	SHATTER	2.00	3,75	2,25	2.75	2.00	1.75	4.00	2.00	4.00	2,25	2.50	3.00	2,75	3,50	3.75	œ	0	1 -	63	C N S	-0-18	-0.27+	-0.20	0.16	0.10	0.06	-0.34	0.08	00.00	1.00	0.1	-0.24	0.0	17.0
TABLE 71 EX	ENTEY VARIETY NUMBER OR CROSS	6 BOSSIER	JUPITER	COLUMBUS		FORREST				CALLAND		DAVIS	MILLI		H			A LE LA	CCFFICIENT OF VARIA	ETY MEANS (****	CORREIATI		AYS TO FLOWE	YS TC MATURI	ULE NUMBER	CDULE	ODOI	ULE WEIGE	PLANT HEIGHT	TCDCING	SH	TS HA		TOO SEED WEIGHT	UBLILI UF
1																																			

YEAR 1975	
EXPERIMENT 462	
72	
TABLE	

		ICEGING	0.0	0	1,00	0	~ ~		0.	0, 1	. 0	0.	0	1.00	00		000000000000000000000000000000000000000	000	000	. 0	0001
		PLANT	0 0	7.9	25.29	1.2	7.6	.6	6,0	m ن	, 30	(n)	0	.98	9.64% 2.80		0.055+ 0.256+ 0.26+ 0.00	0,00		. 20	
		NCDULE WEIGH1 2	0 "	.0.	0.00	. 0	<i>د</i> د	0	0	0 -	. 0	0	9	00	0.0	01)	000000000000000000000000000000000000000	9 9	9 0	0 0	
	975	NODULE WEIGHT 1	0 0	.0.	00.00	0	· ·	. 0	0.	0. ~	0	0 0	0.		0000	.+ - PECB=.	000000000000000000000000000000000000000	0.0	000	. 0	0001
	AS 2	NOCLIE NUMBER 2	0 ^	.0.	00.00	.0		. 0	0	G. (		0.	0	0.0	* 00°0	E=, 15 +	0.00	0.0	200	20.	0.00
	IVCAY - 4CO - 7 D	NOBULE NUMBER 1			00.00			0 0		0				0.0	0.00%	(+ - PROI	0.00	0.00	900		0000
IR 1975	COUNTRY - ELLVATION LCNGITUDE DATE HARV	DAYS IC ATURITY	ů,	6 7	00.05	00	3 0	040	*	° :	0 0	0	9		0.00%		0.28+ 0.65+ 1.00 0.00	000	7.00	. n	0.40
Z YEA	LIALLC 5	LAYS TC FLOWER M	2.0	6.0	26.00	5.0	6.3	6.0	6.0	900	5.0	5.0	5. )	÷ 0	00.00%	TIONS	0.23 1.00 0.65+		0 8	0.0	
PERIMENT 46	3) MIN. N . ASSA, E. GUST 3, 197	YIELD KG/HA	100	29.1	285.58	54.1	45.8	14.0	32.3	89.5	2.9	6.2	2.5	5.0	30.57%	ORRELA	1.00 0.23 0.23 0.00 0.00	00.	• • •	2 7	.00
TABLE 72 EX	REGION - AFRICA SITE - ODIENNE LATITUDE - 9 DEG. CCOFINTCAS - A.D. DATE PLANTED - AUG. SCIL TYPE - SILT	VARIETY F OF CRCSS	JUPITER	FURKEST HAMPION 2664	Ci	WILLAMS	DAVIS	CCEB	HARDEE	EMME FRACE	LAKA 0 BACY	ALLAND	WCCDWORTH	GRAND MEAN OF A VARIETY MEA	CCEFFICIENT OF VARIA	υ	21 20 20		LCDGIN	VIS HARVES	POUS PER PLANT 100 SEE WEIGHT QUALITY OF SEED
		ENTER	← (	21 (V	<b>4</b>	) [ <u>]</u>	1- 0	ريا ر	(1)	3) [	- a	14	12	STA	R< N						

	LITY	00	00	00	00	00	00	00	00	00	00	00	20	00	00	00	693	00	800	0.00	1)	.02	++111	38++	00	. 3.3	00	. 20	00	. J.J	00	73	-0°01	- 0	00
NUEC)	QUALITO OF SE	2	-	7	2.	-	2.	2.	-	2.	1.	2	7	1,		m°	,-	C	c	Ö	ROB=.01	0	)。	+ 0 +	0	°C	0	0	-0-	ت	0	( -	0 6	÷,	-
(CCNTINUED	100 SEED WEIGHT						16.55				9						14.59	), 66	9.08	1.89	- ++	1		454					-0.01	- 9	0	0	-0.10	7.99	0.11
IR 1975	PODS FER	,	0	7	0	7.	8.50	.5	0.	0.	. 5	.5	€.	. 7	. 2	. 5	7.07	0	٦.	2.98	PROE=.05	0.58++	0.12	0.08	0.00	00.00	0.00	), ))	0.39++	),))	00.00	).22	,	÷ (	-0.01
Z YEA	PLANTS HARVEST	7	, -	9		6	$\infty$	.0	*	146.50	8					129.75		6.3	15	. 07	+)	0.45++	), 10	0.33++	0.00	00.0	00.00	0.03	0.21	00.0	00.00	1.33	0 . 2	0	-0.03
PERIMENT 46.	SHATTER	1,00	1,00	1,00	1.00	1,00	1.00	1.00	1.00	1.00	1,33	1.00	1.00	1.00	1.00		1,00	0.00	8000	00.0	SNO	0	0	0	0		0	0	0		0		0.00	~ (	0.00
TABLE 72 EXP	ARIETY R CROSS	а ш Н	1 ( C C C C C C C C C C C C C C C C C C	AMPTON 266A		SSIER	LLIAMS		LUMBUS	CBB	RDEE	FINES	ARK 63	FACY	ALLAND	CCDWCRTH	N A A A A A A A A A A A A A A A A A A A		TOTENT OF VARIA	TY MEANS (*****	CCRRELATI	K G/H	AYS TO	S TC MATURIT	NCDULE	NCDULE NUMBER 2	DULE	CDULE	22	TODGING	S	ANTS HA	PER PL	SEED WEIG	I OF S
	ENTER VA			, Œ	; p	1 22	13				<b>22</b>	03	0	T	U	286		T CHANTARD		5% IST VARIE															

1975
YEAR
094
EXPREBLUX
73
TABLE

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	NEIGHT 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	
75	NOOPULE H 1 GOOD OO	B C B C B C B C B C B C B C B C B C B C
45 MIN. W	NU MEDULE NUMBER 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	
- IVORY CC N - 300 M E - 5 DEG.	N N N N N N N N N N N N N N N N N N N	
RY	MAD A T T T T T T T T T T T T T T T T T T	
LIALLC	FAYS TC # FAC # FA	34.955 0.37% 0.006 0.0000 0.00
30 MIN. N D. ASSA, R. ULY 22, 1975	YILLD KG/HA 2457.91 1620.83 1135.44 1135.42 1135.42 1068.75 935.42 935.42 935.42 935.42 935.42 786.67 816.67 816.67	10183000000000 H 1474
REGION - AFFICA SITE - SIRASSO IATITUDE - 9 DEG. COFFRANTED - J. B CATE PRANTED - J. B SCIL TYPE - SAND		GRAND MEAN LENT CF VARIATION ANS (********S)  XIELD KG/HA DAYS TO PLOWER DAYS TO RATURITY NODULE NUMBER 1 NCDULE NUMBER 1 NCDULE WEIGHT 1 NCDULE WEIGHT 1 PLANT HEIGHT 2 PLANT HEIGHT 2 PLANT HEIGHT 1 OOSEE PLANT UOGING SHATTER OODS PER PLANT UOGING SHATTER OODS PER PLANT
* ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	JUPLIER JUPLIER DAVIS FORRET FORRES HAMPTON 266A IMPROVE PEL SEMMES HARBES BOSSIER CCEB CCIUMBUS CCIARK 63 WILLIAMS WOODWORTH CALLAND	ARD ERROR OF CCEFFICIE WARLETY MEAN
	NN	

UEC)	QUALITY OF SEED	00000000000000000000000000000000000000	
CONTINUE	100 SEED WEIGHT	71. 71. 71. 71. 71. 71. 71. 71.	+ + - B - B - B - B - B - B - B - B - B
EAR 1975	PODS PER PLANT	40.25 20.00	28089 0000000000000000000000000000000000
460 YE	PLANTS	191.00 175.75 178.50 178.50 165.75 165.50 175.50 170.50 170.75 173.70 173.70 173.70	* * * * * * * * * * * * * * * * * * *
XPERIMENT 4	SHATTER	000000000000000000000000000000000000000	000000000000
AELE 73 EX		PELICAN PELICAN GRANE MEAN A VARIETY MEAN NT CF VARIATION S (********	EID KG/HA TO MATURITY ULE NUMBER 1 ULE WEIGHT 1 ULE WEIGHT 1 ULE WEIGHT 1 LOGING SHATTER NTS HATTER NTS HATTER NTS PIANT EED WEIGHT ITY OF SEED
H	VARIETY OR CROSS	JUDITER DAVIS DAVIS PORREST HARDTE SEMMES HARDEE COSSIER COSSIER COSSIER COLUMBUS CIARK 63 MILLIAMS MILLIAMS MILLIAMS MILLIAMS MILLIAMS TRACY CALLANL TRACY	D O O O O O O O O O O O O O O O O O O O
	FNTFY	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

YFAR 1975	
EXPERIMENT 359	
74	
TABLE	

	EGION - AFRIC ITE - SEGUFLA ATITUDE - 8 D	N ASSA, BO	× 1	OUNTRY LFVATI ONGITU	- IVORY C N - 250 M E - 7 DEG	cast 30 Min.	(			
	DATE PLANTED - SCIL TYPE - SIL	0GUST 14, 1	D 1	DATF HAS	RVESTEL -	NOVEMBER,	1975			
NTEY	VARIETY OR CROSS	YISLD KG/HA	LAYS IC FLOWER	DAYS TO	NOBULE NUMBER 1	NCDUIE NUMLER 2	NOLULE WEIGHT 1	NCEULE WEIGHT 2	PIANT	TCEGING
ę			8 0	3.0		0.0	0.		ω ω	C
7 7	Proper	1479.16	35.00	90.00	00.00	34.50	00000	30°00°00°00°00°00°00°00°00°00°00°00°00°0	59,15	1.00
· (*)	HALDEE	387.5	5 . 2	。 つ い い い	9 9	7.0	0	9 4	4.1	00
0) (0		54.1	1.2	0.2		50 0	0.		8	0
7 2	STEMPTS SOCA	333,3	1.	2 0		0 0 77	, 0	0 (	0.0	2 0
7	ALLA	312.5	9.2	1.0	, .	2.0	0		0.5	0
0	COLUMBUS	312,5	7.7	1.0		0.2	0 *		7.4	0
W1 C	OBB	291.6	1.0	8.)		6.5	C, C		9.6	0
7) =	WILLIAMS	166.0	7.7	L H		7 00	00	9	η α - α	00
- 32	TBACY	104.1		6.5	. 1	2 . 5	0	9 4	0.0	9 0
	CLARK 63	041.9	7.0	0.5		1 00 1 10 1 10	0		0.4	0
14	WCODWORTH	30.3	7.)	1.)	9	3 + 2	9		5,3	0
	GRAND MEA	1282.7	4	9	9	7.	0	ru.		0
SIAN	DARD ERROR OF A VARIETY MEA	85.10	. 82	1.46	00.	7.56	.00	0.51	.57	. 23
121 6	CCEFFICIENT C VARIETY MEANS (*	13.27% 242.89	5.20%	3.58%	00.00%	51.30%	000.00	40°67%	15.66%	0.00%
		CORREI	ATICN	Ŋ	(+ - PRO	= • • •	++ - FBCB=	.01)		
	s\$fice	1.0	(1) (1)	37+	0		0,		2	0
	(I)	0.53+	1.33	30	3.		0.		.33	0
	AYS TO MATE	m ° °	o	0			0,0		2,	0,
	NUM	0.0		> ~		0 1	) (		200	20
	WEIG	0.0	g 9	- 0	4 4	9 9	0	000	000	0
	WEI	0.0		26					0.	. 3
	# (	0.2		011	9	9	0,	9	0.	0.0
	LCDGING			~ <	9		0,0		ب د	000
	HAI	0.0		> ~	9 1	A (	0	9 4	. 0	. 0
	SPER	7.0		5			0.		5	0
	SEED	0-	-0.39+	+ -0.53++	00.00	0.13	0.00	0.20	-0.26+	00.00
1	CF.	1 0 0 - 1	. 1	NI	p 1	0	. :	0 1	7 !	0

(उन्	QUALITY OF SEED	(	9 (		0	CA	S	2		.5	L(r)	7.	C	اکا	C	L.S.	4	0 (	18.78%	0.72	B=.01)	-0.14	3.06	0.22	00.00	0.16	00.0	-0.21	0.29+	0.00	00.00	00°0	0.11	-0.14	1.00
(CCNTINUED	100 SEED WEIGHT		0 1	15		- 9		9		6	0.		7	2 °	5		0	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	++ - PROB	-0.06	-7,39++	-0.53++	0.33	0.13	00.00	0.20	-0.26+	00.0	00.00	00.00	++++	1.00	-0.14
EAR 1975	PODS PER ELANT	27 55	37,30	23.63	21,30	25,90	21.63	17.88	23,33	14.40	20,85	18,28	32,28	16,83	17,35	14.20	0	- c	26.67%	8.36	PROB=.05	-22	LC3	(2)	C.	~	0		0.51++	0	$\circ$	0	0:	++ 17 17 0	0.11
¥ 65	FLANTS	(	0	0.00	$\circ$	0	0	0	)	$_{\circ}$	0	$\circ$	0	$\overline{}$	0	0			0	.00	- +)	0	<u> </u>	0.	٠,	0,	0	0 .	0	0	0	0	0.00	9	0
KPERIMANT 3	ShATIEF	1.00	1.00	1, 1)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1, 3.3	1.00	1.))	1.00	1.00	1.00	) (	0.00	0	S N	0	0	0	$\overline{}$	0	0	0	0.00	0	0	0	0.00	0	00.00
TABLE 74 BX	ENTEY VAFIETY NUMBER OF CROSS	BCSSI	IMPROV	7 DAVIS		FORREST		0)	CAILAND	1¢ COLUMBUS	COBB	WILLIA	JUL	TRACY	CLARK	12 WCCDWORTH		ARTETY	COEFFICIENT OF VAR	****** SN	CCRRELATI	Average and the second	YS TO FLOWE	AYS TO MATURIT	CDULE NUMBER	CDI	WEIGHT	CDULE WEIGH	EEIGH		SHAT	ANTS HARV	POUS PER PLANT	STEED WEIG	I CF SE

1975
YEAR
623
EXPERIMENT
75
TABLE

COUNTRY - LESOTHO ELEVATION - 1550 M

REGION - AFRICA SITE - MEJAMETALANA

	LATITUDE - 29 DEG	DEG. 21 MIN. S	10	LONGITUDE	DE - 27 DEG	3. 30 MIN. E				
	DATE PLANTED - DE	CEMBER 12	1975	DATE HAE	RVESTED - A	APRIL, 1976				
	SOIL TRPE - SILTY FERTILIZER USED ( AMOUNT OF MOISTUR	LTY LOAE, PH 5 D (KG/HA) - N TURE - 822 MM	9.2, F 2	9.0, K 50.0	0					
	UARTEMY	VIELD	DAYS TO	DAVS TO	NODILE	NCDULE	NODULE	NODULE	PLANT	
NUMEER	OR CROSS	KG/HA	FLOWE	TURI	NUMBER 1	BER 2	l 	WEIGHT 2	HEIGHT	ICDGING
10	WILLIAMS	3419,85	52.25	125.75	122,75	189.75	.2	1.06	60.77	1.00
-	CALLAND	3362,59	50.50	132.50	134,25	148.75	0.35	1.34	66,38	1.25
7	COLUMBUS	3216.48	54.50	142,50	100,75	113.75	-	0.43	78.05	1.00
เก	TRACY	2288.79	78.75	143.00	138.00	182,25	5	1.79	66,34	3,25
S	WOODWORTH	2095.42	51,00	115.25	97.75	24.00	9 .	0.16	50.81	1.00
3	CLARK 63	1,911,63	53.75	136.25	76.50	135.50	3	97.46	52.54	1.00
9	FORREST	1393,20	78.50	159,00	78.75	91.50	.5	0.83	110.71	4.75
(7)	BOSSIER	1181.49	78.75	160.25	158.00	92.75	0.	0.94	99°96	5.00
12	SEMMES	769.74	83,50	160.50	119.50	119.50	.5	0.79	65°49	5.00
7	DAVIS	738.48	93.00	LO	120.25	103.00	2	1.37	114.03	5.00
-	HAMPTON 266A	2	87.75	10	130.53	126.39	0	1.73	99°66	4.75
(7)		271.30	107.00	LO.	126.25	97.75	6.	1.06	98.52	4.75
			-	15.1	116 011	-	0 73	1 30	82 53	2 15
6 2 4 6 6	GRAND		7 (		46.011		000	000	00.70	
TARIC	SIANDARD ERROR OF A VARLEII BEAN		5.88%	2.07%	59.25	898.64	84.14%	75.92%	7.03%	13.00%
SA ISI		626.19	9	77	****	****	0	****	8.34	0.59
		F C	- E		0000 - +/	- OE	10000	011		
		C O K K K K	A T T C N	n	(+ - FROB	• •	5	(10		
	YIELD KG/HA			+ -0.80++	•	0.27			-0.63++	-0.80++
	DAYS TO FLOWER	B -0.79++					0.56++		0.78++	0.89++
							0.51++		0.85++	0.86++
		1 -0.04					0.53++		0.06	0.11
		2 0.27	'				0.18	++69.0	-0.21	-0.20
	WEIGHT					0.18	1.00		0.36+	++11700
	江						0.56+		0.20	p 7 0
	PLANT HEIGHT						0.36+		00.1	0° % U++
	LODGING						0 4 4 + +		+ ca o	0.0
		R 0.20	•				21.0-	-0.18	10.0-	+7°0-
	HA		•				0 '	0.26	0.30+	80.0
			-0.63++		60.0- +		-0.24	-0.25	++99*0-	-0.57++
		0.8	+16.0-				. 53		++6/*0-	++16.0-
	QUALITY OF SEED	1	0.68+				0.42++		4+69*0	0.79+
			1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1					

7 0 0 0 0 0 0 0 0						
PERCENT	19.2 17.8 15.9 18.0 18.0	13.9 13.8 13.2 13.6				
PERCENT	42.77 45.0 45.0 43.5 45.3 45.3	43.5 44.5 43.4 44.6 43.8				
QUALITY OF SEED	22.00 1.225 1.255 1.555 3.755	4.00 4.00 4.00 4.00	2.63 0.24 18.46%	B= , 01)		1.00
NEIGHT	20.80 20.94 17.53 13.73 18.17 17.58	11.48 10.57 10.31 6.83	14.00.331 0.36%	++ - PRO	0.8888 -0.0914+ -0.0014+ -0.00	++1/00-
PODS FER	48.80 57.35 66.50 71.27 97.02 106.08	55.98 45.43 45.93 36.45	58.94 7.49 25.41% 21.55	ROB=.05		++0000
PLANTS	124.25 146.00 130.25 106.00 45.25 51.75	96.75 130.50 133.75 91.75 44.50	101.65 8.68 17.38% 24.98	1 - +)	0.37++ 0.30+ 0.26 0.26 0.26 0.38 0.38 0.38 0.38	10013
SHATTER	1.00	00000	1.04 0.10 19.89% *****	S N O	000000000000000000000000000000000000000	1000-
			AND MEAN ETY MEAN ARIATION ****=NS)	ELATI	KG/HA FLCWER MATURITY NUMBER 1 NUMBER 2 WEIGHT 2 WEIGHT 2 LODGING SHARVEST PLANT WEIGHT PLANT PLANT	21110
VARIETY OR CROSS	ILLIA ALLAN OLUMB RACY OODWO LARK	OSSIE EMMES AVIS AMPTO ARDEE	A VARI	C O B B		
ENTER	5F C R 2 8 A 4	N C = E V	STANDA S% ISI V			
	VARIETY OR CROSS SHATTER HARVEST PLANT WEIGHT OF SEED PROTEIN	VARIETY         PHATTER         PLANTS         PODS FER         100 SEED         QUALITY         PERCENT         PERCENT           WILLIAMS         1.00         124.25         48.80         20.80         1.00         42.8         1           CALLAND         1.00         146.00         57.35         23.94         2.25         42.7         1           COLUMBUS         1.25         13.25         66.50         17.53         1.25         45.0         1           WOODWORTH         1.00         106.00         71.27         13.73         1.50         41.5         1           FORREST         1.25         51.75         106.08         17.58         1.50         45.3         1           FORREST         1.00         119.00         55.53         11.60         3.75         45.4         1	The Free Cross   Columbus   Col	MILLIAMS	WILLIAMS	NITE   VARIETY   VARIETY   CALLAND

SITE - KOULIKORO

SITE - KOULIKORO

LATITUDE - 12 DEG. 55 MIN. N

LATITUDE - 12 DEG. 55 MIN. N

LONGITUDE - 7 DEG. 33 MIN. W

CCOPERATOR - 7 DEG. 33 MIN. W

LONGITUDE - 7 DEG. 33 MIN. W

DATE PLANTED - 7 DIX 11, 1975

SOLI TYEE - 5AN 52.5%, SILT 39.8%, CLAY 7.7%, PH 6.3

PERTILIZER USED (KG/HA) - N 7.2, P 18.4, K 30.0

AMOUNT CF MOISTURE - 631 MM

LOCAL VARIETIES - G 5, G 115

LODGING	000000000000000000000000000000000000000	1.18 10.91% 0.06 10.91% 0.344 0.554 0.554 1.00 1.00 1.00 0.00 0.00
PLANT	34.00 43.25 43.25 44.25 22.25 22.25 22.25 22.75 41.75 41.75 41.75 65.00	41. 45 1. 62 7. 83% 4. 64 0. 84 0. 84 0. 72 1. 00 0. 18 0. 07 0. 07
NODULE WEIGHT 2	2.55 4.35 4.35 4.35 4.35 4.35 4.35 4.35 4	######################################
NODULE WEIGHT 1	0.000000000000000000000000000000000000	* * * * * * * * * * * * * * * * * * *
NUMBER 2	150.25 255.50 234.00 314.25 211.00 233.75 283.00 149.00 159.25 145.25 169.00	204.17 35.66% 104.03 104.03 104.03 100.01 100.01 100.01 100.00 100.00 100.00
NODULE UMBER 1	53.75 57.75 34.50 34.50 63.50 87.50 163.75 60.50 60.50 61.00 159.75	84,15 9,45 22,46% 27,46% 
DAYS TO ATURITY N	95.00 895.00 95.00 95.00 95.00 95.00 89.00 89.00	93.83 0.83% 1.11 1.11 1.00 0.00 0.00 0.00 0.00 0.0
PLOWER M	288.00 288.00 288.00 288.00 288.00 290.00 200.00 200.00 200.00	32.82 0.48 2.94% 1.38 1.38 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
YIELD KG/HA	2121.26 2090.00 1935.80 1935.80 1931.64 1902.46 1869.30 1869.12 1608.65 1469.04 1469.04	1731.04 94.56 10.92% 270.25 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
		GRAND MEAN VARIETY MEAN OF VARIETY MEAN (********NS)  IELD KG/HA S TC PLOWER S TC MATURITY DULE NUMBER 1 DULE WEIGHT 1 LUDIE WEIGHT 2 LANT LOGICHT 2 LANT LOGICHT 2 LANT REIGHT 2 LANT REIGHT 2 LANT REIGHT 1 LOGICHT 2 LANT REIGHT 2 LANT REAVEST PER PLANT SEED WEIGHT LITY OF SEED EASE III
VARIETY OR CROSS	COBB COLUMBUS FORREST WILLIAMS SEMBES HAMPITER DAVIS BOSSIER CLARK 63 CALLAND TRACY WOODWCRTH G 5	RD ERROR OF A COEFFICIENT ARIETY MEANS ( DAYS NOD NOD NOD NOD NOD SOUGH
ENTRY	20 0 0 E E C C C C C C C C C C C C C C C	STANEA STANEA

9 8 9 8 8 8 8 8			000000000000000000000000000000000000000
PERCENT	24.0 22.0 21.9 22.9 22.9 23.3 23.3 23.0 21.8 22.4 20.9 20.9 20.1 16.7	£	000000000000000000000000000000000000000
PERCENT	41.8 44.1 42.9 43.8 44.6 43.8 41.9 44.0 44.1 44.1 44.8	PROB=.01)	000000000000000000000000000000000000000
QUALITY OF SEED	2.25 2.25 2.25 2.25 2.25 2.25 2.25 2.25	2.27 0.25 22.44% 0.73	0.18 0.256 0.256 0.07 0.07 0.07 0.04 0.06 0.06 0.06 0.07 0.07 0.00
100 SEED WEIGHT	17.10 18.08 19.08 19.08 14.80 21.15 17.23 17.60 19.58 19.45 18.70 7.92	16.91 0.66 7.76% 1.87 (+ - PROB=.	0.443++
PODS PER 1	32.70 22.78 30.72 23.97 23.97 23.97 21.38 51.38 18.20 18.20 18.20 48.52	28.38 4.12 29.04%	00000000000000000000000000000000000000
PLANTS E	150.50 130.50 131.50 140.50 143.25 132.25 145.50 113.050 130.50 188.50	129.65 7.90 12.19% 22.59 T I O N S	0 - 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -
SHATTER	000000000000000000000000000000000000000	1.18 0.00 10.91% 0.18 ERELA	-0.00000000000000000000000000000000000
		IND MEAN TT MEAN REATICN ****=NS)	KG/HA PLOWER PLOWER 1 NUMBER 1 NUMBER 2 WEIGHT 1 WEIGHT 2 LODGING SHATTER PLANT WEIGHT OF SEED
VARIETY OR CRCSS	COLUMBUS COLUMBUS WILLIAMS WILLIAMS SEMMES HAMMINES HAMMINES HAMMINES BOSSIER CLARK 63 CALLAND TRACY WOODWORTH G 5	GRAND M: COEFFICIENT OF VARIETY M COEFFICIENT OF VARIAT ARIETY MEANS (********	PIELD DAYS TO M NODULE N NODULE N NODULE N NODULE N PLANT PLANT PLANT PLANT DISEASE DISEASE
ENTRY	20 00 13 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	STANDA!	

197
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EXPERIMENT
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TABIE

PEGION - AFRICA

SITE - STRASSO

LATTUDE - 11 DEG. 15 MIN. N

LOOPERATOR - I.R.A.T.

DATE PLANTED - OLLY 9, 1975

SOLI TYPE - SAND 55%, SILT 32%, CLAY 13%, PH 5.5

FRETLIZER USED (KG/HA) - N 10.8, P 12.0, K 50.0

AMOUNT OF MOISTUPE - 948 MM

0	OR CROSS	KG/HA	PLOWER	DAYS TO	NODULE NUMBER 1	NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LODGING
~ 0	REFIGUR	2210.86	37.00	107.00	0.00	0.00	0.00	00.00		00.00
			37.00	98.00	00.0	00.00	00.00	00.00		
	FORREST		37.00	92.00	00.00	00.00	00.00	00.00		
. ~	HARDER	1583,65	37.,00	98.00	00.00	00.00	00.00	00.00		
12.	WOODWORTH		30.00	82.00	00.00	00.00	0.00	00.0		
. 7	HAMPTON 2663	1541.97	37.00	92.00	00.00	00.00	00.00	00.00		
2			30.00	85.00	00.00	00.00	00.00	00.0		
3	COBB		37.00	92.00	00.00	00.00	00.00	00.00	44.25	0.0
ħ	IMPROVED PELICAN		37.00	92.00	00.00	00.00	00.00	00.0		
10	COLUMBUS	1327.35	30.00	85.00	00.00	00.00	00.00	00.0		
14	CALLAND	1277.34	30.00	82.00	00.00	00.00	00.0	00.00		
14	MILLIAMS		30.00	82.00	00.00	00.00	00.00	00.0		
15			37.00	92.00	00.00	0.00	00.0	00.00		
11	CLARK 53		30.00	82.00	00.00	0.00	00.00	00.0		0.00
x		9	30.00	82.00	00.00	00.00	0.00	00.0		
	GRAND MEAN	1447.37	33.73	89,53			0.	0	49.17	0.0
CARDA	R PR ROR OF A	202.20	00.00	00.00			0.	0	3.54	0.0
2 4 4 5	CORPECTENT		800.0	0.00%	0.00%	0.00%	0	%00.00%	14,38%	0.0
5% ISD V	LSD VARIETY MEANS (******=NS)	****	00.0	00.00			0	C	10.09	00.00
	υ	CRRRL	ATION	€.	(+ - PRO	ROB=.05	++ - PROB=	=.01)		
	YIBLD KG/HA		0.29+	0.46++	0.	00.00	0		0.48++	0.
	FICW	0.29+	1.00	က	0.	00.00			0.07	0.0
	TO MATURI	0.46++	0.85+	1.00	0	00.00	0.		0.34++	0
	ILE NUMBER		00.00	00.00	1.00	00.00			00.00	0.0
	NUMBER	0.00	00.00	00.00	00.00	1.00			00.00	00.00
	WEIGHT	00.00	00.0	00.00	00.00	00.00	1.00		00 0	0.0
	NODULE WEIGHT 2	00.00	0.00	00.00	00.00	00.00			00 °0	0:0
	HEIG	0.48++	0.07	0.34+	00.00	00.00			1.00	0.0
	LODGING	00.00	00.00	00.00	00.00	00.00			00.00	
	SHATTER	00.00	00.00	00.00	0.00	00.0	4		00 00	0
	HARVE	0.29+	0.14	0.13	00.00	00.00	00.00		0. 15	0
	PL A	0.55++	0.50+	+ 0.59+	00.00	00.00			++840	0 0
	100 SERD WEIGHT	00.00	00.0	00.00	00.00	00.00			00.00	00.00
	OF SE	00.00	00.0	00.00	00.0	0			00.00	0.0
	DISEASE	00.00	00.00	00.00	00.0	00.00	00.00	0.00	00.0	0
		00.00	00.0	00.00	00.0	00.00	0		00 00	0.00

NIMPER	OR CROSS		C 7 11 17 7	7					
- :		SHATTER	HARVEST	-		OF SEED	PROTEIN	FERCENI	
	JUPITER	0.00	100 00	00 00	c	(	0		
	DAVIS	00.00	100.00	10 75		$\supset$ $\circ$	38.I	24.9	
6	FORREST	00.00	100.00	21 50		00.0	1.80 1.77	23.1	
*1	HARDEE	00.00	100.00	20000		00.0	0°.C0	24.8	
12	WOODWORTH	00.00	100 00	14.00		00.00	22.00	26.4	
2	HAMPTON 2668		00.00	00.4.	00.0	00.0	55.8	25.8	
2			00.001	18.00	00.0	00.00	35.5	26.3	
ي د		00.00	100.00	20.50	00.0	00.00	37.9	24.6	
n :		00.00	100.00	18.75	00.0	00.00	35.0	25 3	
<b>†</b>	IMPROVED PELICAN	00.00	100.00	27.00	00.00	00.00	40 1	20.00	
0	COLUMBUS	00.00	100.00	13.50			0 12	7.47	
14	CALLAND	00.00	100.00	15 75			0.70	6.42	
13	MILLIBES		00000	0 1 2 2	0000	00.0	1.8c	23.4	
15		0	00.001	14.50	00.00	00.00	37.3	24.9	
7 6	٥,	0.00		_	0.00	00.0	36.6	24.4	
- :	CLARK 63	00.00	- 4	14.00	00.00	00.00	36.4	25.7	
20	TRACY	00.00	97.50	13,75	00.00	00.00	37.8	23.4	
	GP 1	00.00	99.83	18.62	00.00	0.00			
STANDA	VARI		0.65	2.55	00.00	00.00			
	T OF VI	0.00%	1.29%		%00°0	200.0			
5% LSD V	VARIETY MEANS (********NS)		*****	7,29	00.00	00.00			
	υ	ORREL	ATION	S	(+ - PROB	0B=,05 ++	- PROB=.	01)	
	ADV CO		0						
	DAVE OF SAME		0.29+	z, l	00.00	0.00	00.0	0	0.0
		00.00	0 . 14	. 50	0.0	- 0	00°0	0	0.0
		0000	0		0.0		00.00	0	0 0
	z	00.0	00.00		0		00.00	-	
	NUMBER	00.00	00.00		0		00.00	, –	
		00.00	00.0		0		00.0	, <	
	WEIGH	00.00	00.00	- 0	0			0 0	٥
	PLANT HEIGHT	00.00	0.15		0-0	B	,	> <	2 9
	LODGING	00.00	00.00	00				2 0	0 0
	SHATTER	1,00	00.0		0	0		٥,	2 0
		00.00	1.00	0.17	9 0			20	2 0
	PODS PER PLANT	00 0	0.17		> <			0.00	0.00
	[38	0.00	000		> <	9	0.00	١	0.0
	C	0000			> 0		00.00	0	0
	30		00.00		0		0.00	0	0.0
		00.00	00.0	00.00	0	00.00	1.00	0	0
	ULDERSE II	00.00	0000	-	C		0	<	0
								-	

YEAR 1975

EXPERIMENT 456

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YEAR 1975	
EXFERIMENT 488	
78	
TABLE	

1975

LECEMBER,

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HARVESTED

DATE

SOIL PH 6.2 LATE PLANTED - OCTOBER 6, 1975 AMOUNT OF MOISTURE - 749 MM NUMBER OF IRRIGATIONS - 20

[2.]

- 57 DEG. 34 AGRICULTURE

DEG.

- 70 M - 57 DE

ELEVATION -LONGITUDE -COUNTRY -

REGICN - AFRICA SITE - PAMPLEMOUSSES LATITUDE - 20 DEG. 6 MIN. S CCOPERATOF - AGRICULIURAL DIVISION

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MAURITICS

0.000 0.46 62.47% \*\*\*\*\* LCLGING 55.27 7.42 26.83% 49.25 447.33 558.66 558.68 54.00 54.00 54.00 51.65 51. PLANT EFIGHT NCEULE WEIGHT 2 PBCB= .01) 1.59 0.18 23.26% NODULE WEIGHT 1 ı ++ 0.00 NCDULE NUMBER 2 - PROE=, 05 18.89% NODULE NUMBER 1 373.00 312.00 3346.50 3346.50 3305.00 3312.00 3312.00 3312.00 3312.00 3386.25 368.25 368.25 367.75 335.87 ± 0.73++
0.73++
0.013
0.03
0.03
0.03
0.04
0.06
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0.06
0.06 21.43 37.80% 79.50 89.00 94.25 94.75 94.75 99.25 100.50 114.00 131.25 123.25 DAYS TO 113.43 S 33,30 5,97 35,83% z LAYS TO FLOWER 333,75 200,00 340,00 440,00 440,00 440,00 334,75 337,76 337,76 337,76 337,76 41,00 41,00 0 Н Н ret; -0.00 -0.07 -0.07 -0.00 1547.75 476.18 61.53% ₽ 2556.35 2259.20 11898.71 1767.02 1728.26 11697.01 11617.82 11617.82 11294.01 11263.59 11243.58 11503.59 11503.59 YIELD KG/HA H Cij a 0 Ö KG/HA
FLOWER
HATUNETY
NUMBER 2
WEIGHT 1
WEIGHT 2
BEIGHT 2
SEGHT 2
LEDGHT 2
LEDGHT 2
LEDGHT 3 PLANT WEIGHT OF SEED STANDARD ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATION ISI VARIETY MEANS (\*\*\*\*\*\*\*\*\*) YIELD DAYS TO NCDULE I NCDULE I NODULE I PELICAN PIANTS
POES PER
100 SEED
QUALITY PLANT 266A WOODWORTH VARIETY OF CROSS CCIUMBUS IMPROVED CIARK 63 JUELTER HAMPTON CALLAND FCRREST BOSSIER HARDEE DAVIS TRACY COBB FNTFY 

PERCENT	23.4	23.9	22.4	22.6	22.3	27.2	27.7	24.3	22.0	22.00	25.22	22.0	24.0	24.5	2.0.3																		
PERCENT	43.8	45.2	42.9	46.1	45.7	37.0	40.5	44.2	44.8	41.0	43.2	43.9	0.00	4 2 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3	46.2																		
QUALITY OF SFEE	C	* 2	(1)	.2	e C	e Cu	0	.7	10	0	( )	7	7	4.25	4 . 25	i d	3.27	.73	47997	ROB=.01)	-0.63++	3.20	0.88++	done	0,00	-0000	0.00	0.57++	0.60++	0.62++	$\sim$	0	۰
100 SEED WEIGHT	17.34	20.48	17.06	16.37	14.83	15,33	18.96	17,26	19,36	13,89	22.37	19.34	20.90	18.20	20.81		- (	\$ 50 ° € 0	N N t N + + + + + + + + + + + + + + + + +	++ - PR(	-0.09	0.05	0.29+	0.12	00.00	-0.14	0.00	0.15	1.28+	0.26+	0.00	00.00	
PODS PER PLANT		0.	0.	C.	0	0.	0.	0	0,	0	0	0	0		0		0.00	00.00	00.0	PROB=.05	0.00	0.00	0.00	00.00	00.00	0.00	0.00	00.00	7.1)	00.0	), ))	1.00	<
PLANIS	0	0	0		0	$\sim$	0	0	0	0	~	0	0	00.00	0	6	0000	0000	00.0	+)	0.00	3.33	00.0	00.00	0	0	၀	0	· ·	0	1.33	0	000
SHATIER	1.00	1.00	1,25	1.)3	1.00	1.25	1.50	1.25	1.25	1.25	1.50	1.75	1.50	2,25	2.25	5	•	17.078	****	C N S	-0.68++	0.17	0.76++	0.01							0°00		77C U
														N		2 N K C M	TETT MEAN	VARIANTEN	(SN=+++++	EIATI	KG/H	FLOWE	MATURIT	NUMBER	NUMBER 2	WEIGHT	3		LCDGING	SHATTER	HARVEST	PIANT	出土工工工工
VARIETY Of CRCSS	COLUMBUS	WILLIAMS	FORREST	JUPITER	SEMMES		HAMPTON 266A	DAVIS		WOODWORTH	HARDEE	LLAN	LARK	MPROVED PELICA	BOSSIER		ניא קט מטממז עז	O LUTTOTABLO	ARIETY MEANS (*	CCRR	XIELD	DAYS TO	DAYS TC	NCDULE	NCCULE	NCDULE	NCDULE	PLANT			PLANTS	FOLS PER	1 1 0 0 1 1 1
ENTEY	10	7) (	۰ او		u1 (	41	7	1	w	12	(1)	14	11	7	Ę		CTANTO	4 4 4 4 4	V ISI V														

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	PLANT	38.28	27.59	31.78	28.73	22.90	29,88	38,81	29.82	44.03	36.21	33,52	5,35	31.90%		333		-0.00					. 35		0.63+1
	NCDULE WEIGHT 2	0.00	0.00	0 0	00.00	0.0	0.	0		. 0	0,	0.00	00.00	0.00%	01)	0 0	00	0	> C	0	0	00	00	0	00.00
E 1975	NODULE WEIGHT 1	0.16	.2	2.5		. 2	.2	.2	C# C	3 (	9 9	3.19	0.02	22.22% 0.06	++ - PRCB=.	- <	0.03	-	50		0.	- 0	0.25	-	0.04
US G. 29 MIN. TURE EECERBER, 1	NCEULE NUMBER 2	00.00	00	0.0	0	0,0	0		0,0	, ,				0.00%	E=• 05	0.0		0		0.	0	0,0	00	0	00.0
MAURITI - 31 M - 57 DE AGRICUL ESTEL -	NODULE NUMBER 1	144.25	127.00	163.50	43.	202.50	161.25	154.25	165.25	185.00	179.25	159.95	21.04	26.30%	(+ - PRO	0.0-	0	0	7	- 0	0	0.0	0.0	den i	
COUNTRY ELEVATION LONGITUDE MINISTRY OF DATE HARV	DAYS TO	118.75	99.75	93.00	126.75	104.25	133.00	131,25	126.75	163.25	132.25	01	20.10	32.88%	S	39+		0	0.33	0.00	0	), 29+	00	00	0.50++
SIVISION - 975 44.0	DAYS TO FLOWER	42.25	C 10	010	01.6	00	L 163	-	DESCRIPTION OF	00		42.67	3.24	15.21%	ATION	4-0-		0.12		20	0.8	).43++	0 0 0 0 0	0.05	0.52++
HN. 2, 2, 12, 12, 12, 12, 12, 12, 12, 12, 12	XIELD KG/HA	952.27	00	00	-	000	10	-	00	N =	100	5.3	9	7 ° 5	ORFEL	1.00	-0.43++	0.03	0.0	0.03	-0.33++	0.2	-0.22	0.16	-0.18
AFFICEDULT  1 - 20  1	, 1 1 1 1 1 1 1									z		MEA	ETX	VIIO K=NS	C	KG/HA	MATHRITY			WEIGHT 1	EEIGHT	LODGING	HARVEST	FLANT	WEIGHT OF SEED
REGION - SITE - F LATITUDE COOFERAT CATE PLA SCIL PH FERTILIZ AMOUNT ICCAL VA	VABIETY OR CROSS	TRACY	FCRREST	WOODWORTH	HARDEE	CCLUMBUS HAMPTON 2663	WILLIAMS	DAVIS	63	IMPROVET PELICAL	COEB	61	VAR	COEFFICIENT OF VARIETY MEANS (***)		1:1	DAYS TO	Ţ	J .	NODULE	2		PLANTS	POLS PER	100 SEEL QUALITY
	FNTER	w w	o, <del>-</del>	12	. m	10	13.6	1-	11	ar a	2 LL )		STANDA	V 121 R											

1.07 0.16 30.23% \*\*\*\*\*\*

ICEGING

PERCENT OIL	21.2 25.4 26.0	21.9	21.6	23.5	25.3	26.4	22.8		24.6	21.8	26.6																
PERCENT	44.8	47.0	41.3	46.4	41.5	42.1	44.8	1	47.1	41.2	41.0																
QUALITY OF SEED	4.75	00°E	3.50	4.25	3.00	3.00 1.05	3.50	3.50	5.00	5.00	4.25	8 6	0.57	29 • 33%	PROB=.01)	-0.20	) * 48++	++69°0	-0.07	00.0	-0.02	00.00	0.00*	0.46++	0.41++	0.06	0.18
100 SEED WEIGHT	16.87	15.86	16.31	17.91	15.43	17.28	21.96	18,96	18.16	21,19	21.46	18.08	2.01	22.21%	++ - PRC	-0.18	3.52++	0.50++	3.36	00.00	0.04	00.00	0.41++	0.0	0,10	0.03	1.00
POES PER PLANT	14.13	12,38	10,38	15,68	10.80	10,85	7.85	11.55	11.40	4.98	13,73	11.15	,	n mr	PROB=.05	0.16	0.05	60.0	0.15	00.00	-0.12	00.00	60.0	0.19	-0.12	1.00	0.03
PLANTS HARVEST	193.25	166, 50	191.00	177.25	116.25	168,25	217.00	186.00	215,75	204.00	178.75	181,03	22.46	%L8°47	+)	)		0	O	0		0.00	* + = = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 11	1.00	-0.12	0.10
SHATIER	1.50	1,25	1.50	1.00	1.00	00.1	1,00	1.50	1,75	1.00	1,50	1.37	0.33	4 1 0 0 3%	C N S	-0.22	0.45++	0.41++	-0.38	00.00	0.03	00.00	0.00	1,00	0.15	0.19	0.11
									Prip.			GRAND MEAN	ETX MEAN	VABLATION *****=NS)	EIATI	KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	TUDITATI	SHATTER	HABVEST	PLANT	MEIGHT
VARIETY OR CROSS	TRACY BOSSIER FCRREST	JUPITER	LOCAL	HARDEE	6	HAMPTON 266A	DAVIS	CLARK 63	IMPROVED PELICAN	CALLAND	COBB		ARD ERROR OF A	COEFFICIENT OF V	CORR	ELD		TO	ULE	TIO	CDULE	NCDULE	TNRTE		PLANTS	POLS PER	100 SEED
FNTFY	ധയത	· (	7 1 2	1*)	10	7 17	1	-	্ব	14	ш	2	STANDE	151													

YEAR 1975

EXPERIMENT 39C

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RXPERIMENT
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31,74 3,66 23,05% 10,46 000 000 000 000 000 000 000 000 PLANT 005 330 440 440 440 90 90 90 90 90 00.00 WEIGHT =.01) 00.00 NODULE WEIGHT 1 PROB-00000-0000000000 1975 14.63 9.15 125.00% \*\*\*\*\*\*\* SEPTEMBER, NODULE MBER 2 16.75 39.50 15.00 11.50 11.75 1.75 1.75 1.75 1.00 1.00 1.00 MIN. NUMBER PROB=. 05 33 - 172 M - 3 DEG. 0.00 NUMBER 1 HARVESTED -PH 5.8-6.0 - NIGER ı ELEVATION 00000 DAYS TO LATITUDE - 11 DEG. 59 MIN. N
COOPERATOR - I.R.A.T.-NIGER
DATE PLANTED - JULY 5, 1975
SOIL TYPE - SAND 85-90%, SILT + CLAY 10-15%, SERTILTER USED (KG/HA) - P 20.0, K 25.0
AMOUNT OF MOISTURE - 813 MM S 00.00 Z DAYS TO FLOWER 0 E-1 nti' 184.60 27.64% 527.60 ы YIELD KG/HA 1925, 38 1775, 35 1775, 35 1600, 30 1329, 43 1266, 94 1266, 94 1266, 94 1266, 91 1216, 91 1216, 91 1216, 91 1216, 91 1700, 24 1700, 24 1335,54 [2] 25 œ 0 U RG/HA
PLOWER
MATURITY
NUMBER 2
WEIGHT 1
WEIGHT 2
WEIGHT 2
LODGING
SHATTER
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WEIGHT GRAND MEAN
ARD ERROR OF A VARIETY MEAN
COEFFICIENT OF VARIATION
VARIETY MEANS (\*\*\*\*\*\*\*"S) - AFRICA PELICAN ŧ YIELD
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DISEASE REGION SITE WOODWORTH CLARK 63 TRACY HAMPTON 266A IMPROVED E CALLAND VARLETY OR CROSS WILLIAMS DAVIS JUPITER HARDEE SEMMES PORREST ROSSIER COBB STANDARD ENTRY

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LODGING

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G. 28 MIN. N. A.TNIGER ULY 3, 1975 (R/T/M), FIN (RG/HA) - K (RG/HA) - K	YIELD KG/HA	3500.70 3459.02 3375.67 3354.84 3146.46 3021.44 3000.60 2279.76 2279.76 22137.99 1146.06	0 8 8 E L L 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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REGION - AF SITE - MARA LATITUDE - CCOPERATOR DATE PLANTE SOIL TYPE - FERTILIZER ANUMBER OF I	S		
	VARIETY OR CROSS	FORREST CALLAND DAVIS WILLIANS WOODWORTH COBE BOSSIER SEMES CLARK 63 COLUBBUS TRACT HARDEE IMPROVED JUPITER	LSD VARIETY HEANS DAY NAME OF THE PROPERTY HEANS NAME OF THE PROPERTY HEADS
	ENTRY	144 172 173 175 175 175 175 178 178 178 178 178 178 178 178 178 178	a de la companya de l

Bary 1			SHATTER	HARVEST	PIANT	WEIGHT	OF SEED	PROTEIN	OIL	
	FORREST		1.00	132.75	48.00	00.0	00 0	40.3	21.1	
9	CALLAND		1.00	7	58.50	00.00	00.00	41.0	21.2	
puil .	DAVIS		1.00	150.00	58.50	00.00	00.00	41.4	21.7	
Late	WILLIAMS		1.00	127.50	34.25		00.00	40.7	22.6	
_	WOODWORTH		1.75	121.75	40.00		00.00	39.5	23.0	
	COBB		1.00	120.25	58.50	00"0	00.0	39.0	22.5	
14.0	BOSSIER		1,25	131.25	47,25		00.00	44.9	19.8	
V	の問題語のの		1,00	154.00	0.00			42 3	21 1	
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, (				67 - 711	37.00		00.00	40.0	0.77	
	Ω		1.25	124.15	34.75	0	00.00	42.4	21.4	
u&J	HAMPTON 266A		1.00	129.00	20.00	00.00	00.00	40.2	21.8	
-	TRACY		2.00	125.00	31.75	C	00.00	44.6	18.7	
20	HARDEE		1.00	117.75	60.50	(		43 5	10.7	
	THPROVED PRITCAN		100	151 75	62 25	2		N 2 N	5.50	
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3	JUPITER		1.00	114.25	69.75	00.00	00°0	43.8	17.9	
	CNERG	NAW CN	1 15	120 15	80 01/	0	0			
	2 10 10 10 10 10 10 10 10 10 10 10 10 10	2000	010	-		00.0	00.0			
NDARD	STANDARD ERROR OF A VARIETY	TY MEAN	0.18		œ	00.00	00.0			
	OEFFICIENT OF VA	RIATION	30.79%	17.69%	(T)	0.00%	%00°0			
LSD VARI	VARIETY MEANS (******=NS)	***=NS)	0.51		23.	0.00	00.00			
		υ	ORREL	ATION	S	(+ - PROB	+ 50°=	+ - PROB=.0	01)	
		KG/HA	-0.12	0.19	-0-	0.	00.00	00.00	00.00	0
	DAYS TO	PLOWER	00.00		0	0	00.00	00.00	00.00	C
	DAYS TO M	MATURITY	-0.29+	,		0	00 0	00-0	00.00	C
	NODULE	UMBER 1	00 0		0	0	00.00	00.00	00	
	NODREEN	NUMBER 2	00.00		00.00	00.00	00.00	000		
	NCDULE	EIGHT 1	00.00		C	00.00	00.0			
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		ED-TED							00.0	0.00
		THOTTON	200		°	° (	00.00	00.00	00.00	0
		LUDGING	-0-17		ပံ	0	00.00	00.00	00.0	00.00
		SHATTER	1.00	1	-0-	0	00.00	00.00		00 0
	PLANTS	HARVEST	-0.09		-0-	0	00.00	00.00	00.00	00.00
	PODS PER	PLANT	-0.19	,			00-0	00.00	000	
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		4224			0 0		200	00.00	9	00 00
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STTE - ST. DENIS

LATITUDE - 20 DEG, 53 MIN. S

LONGITUDE - 55 DEG, 30 MIN. E

LONGITUDE - 55 DEG, 30 MIN. E

DATE PLANTED - JUNE 23, 1975

SOIL TYPE - SAND 14 K, SILT 39 K, CLAY 20 K, PH 5.8

PERTILIZER USED (RG/HA) - P 44.0, K 83.0

AMOUNT OF MOISTURE - 587 MM

NUMBER OF IRRIGATIONS - 9 (425 MM)

SUBSTITUTE VARIETY - AMSOL

1	ENTRY	VARIETY OR CROSS		YIELD KG/HA	DAYS TO FLOWER	DAYS TO	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT REIGHT	LODGING
The color of the	1	JUPITER		89.1	6.0		60	0.00	5.73	0.00	37,25	1.00
TABLE HORSE	7	DAVIS		LC)	6.0	0	234.75	00.00	3,15	00.00	16.75	1.00
COLDING STREAM 1567-75 39.00 99.00 29.00 2.30 0.00 2.05   COLDING STREAM 1560-05 39.00 99.00 29.00 29.00 2.53 0.00 17.25   COLDING STREAM 1560-109 99.00 29.	3	HARDEE		1403.61	9		338.00	00.00	3,50	00.00	17.25	1.00
## PROPER 1266.09 39.00 84.00 302.25 0.00 2.80 0.00 15.75 0.00 15.	14	CALLAND		1267.75	9.		202.00	00.0	2.30	00.00	20.25	1.00
PULLIARS PURBERT PURBE	9	BOSSIER		1261.09	9.		293.75	00.00	2.80	00.0	15.75	1.00
### PROPEREY TO PRESENT TO SEASON STATE TO SEA	5	COBB		1260.25	9.	84.00	302,25	00.00	2.53	00.00	17.25	1.00
The proper periods	6	FORREST		1258.58	9	92.00	244.25	00.00	2.38	00.0	22.50	1.00
The property of the property	13	WILLIAMS		1240.25	0	92.00	312.50	00.00	2.30	00.00	17.25	1.00
THERRYED PELICAN  TH418 2 33.00 99.00 170.75 0.00 2.20 0.00 22.00 18.00	2	HAMPTON 266A		1208.16	9	00.66	268.00	00.0	2.53	00.00	16.00	1.00
THEROYED PELICAN  A MANDA PELICAN  A MANDA PELICAN  THROYED PELICAN  THROY	10	COLUMBUS		1174.82	9	99.00	170.75	00.0	1.33	00.00	15.00	1.00
THACK	77	IMPROVED PELICAN		1141.89	9	00.66	208.75	00.00	2.20	00.00	22.00	1.00
THACAT TH	15	AMSOY		982.28	6	109.00	226,75	00.00	1.25	00.00	14.75	1.00
THE PROBLEM OF THE RANS (************************************	8	TRACY		956.86	6	84.00	270,75	00.00	1.53	00.00	14, 25	1.00
Variety Manner   Ma	11			23.1	9.	00.66	123.75	00.00	0.80	00.0		1.00
STANDARD ERROR OF A VARIETY MEAN  COEFFCIENT OF VARIETY MEANS (*********NS)  LISD VARIETY MEANS (*********NS)  YIELD VARIETY MEANS (*********NS)  YIELD VARIETY MEANS (*********NS)  CORF R L A T I O N S  YIELD VARIETY MEANS (*********NS)  YIELD VARIETY MEANS (*********NS)  CORF R L A T I O N S  (* - PROB=.05	12	WOODWORTH		80.5	0	78.00	258.00	00.00	1.40	00.00		1.00
THE BERGE OF A VARIETY MEAN 1241-19 40-13 50-50 753-15 0.00 0.22 8 0.00 0.62 538 0.00		6 6 7		4	6	L	6	(	(	0		
TANDARD ERFOR OF A VARIETY HEAN 48.90 0.000 0.000 69.79 0.000 0.000 0.62 0.000 0.62 0.000 0.62 0.000 0.62 0.000 0.000 0.62 0.000 0.000 0.63 0.000 0.22 0.000 0.0				1241,19	40.13	5	25 3 . 15	00.0		00.00		1.00
CORPRICIBNT OF VARIATION 7.88% 0.00% 19.29% 0.00% 18.65% 0.00% 1.78  LSD VARIETY MEANS (************************************	STANDA	AND ERROR OF A VARIETY	MEAN	48.90	0.00	- 0	24.42	00.00	0	00.00	0	00.0
VIETD   KGZHA   1.00   0.00   69.79   0.00   0.63   0.00   1.78		COEFFICIENT OF VARI	ATION	7.88%	200.0		19.29%	0.00%	18.	0.00%	9	0.00%
KG/HA         1.00         0.29+         0.53++         0.43++         0.00         0.86++         0.00         0.72++         0.00           FLOWER         0.29+         1.00         0.43++         0.43++         0.00         0.47++         0.00         0.51++         0.51++         0.51++         0.00         0.51++         0.00         0.51++         0.51++         0.51++         0.00	TSD		*=NS)		00.00		64.69	00.00	°°°	00.00	-	00.00
KG/HA         1.00         0.29+         0.53++         0.43++         0.00         0.86++         0.00         0.72++         0.           FLOWER         0.29+         1.00         0.40++         0.31+         0.00         0.44++         0.00         0.55++         0.           NUMBER 1         0.43++         0.40++         0.05         0.00         0.00         0.00         0.59++         0.           NUMBER 2         0.00         0.				RREL	TION	S	- 1	3=.05	++ - PROB=	.01)		
KC/HA         1.00         0.29+         0.53++         0.43++         0.00         0.47++         0.00         0.72++         0.           FLOWER         0.29+         1.00         0.40++         0.31+         0.00         0.47++         0.00         0.51++         0.           NUMBER 1         0.44++         0.40++         1.00         -0.05         1.00         0.00         0.59++         0.           NUMBER 2         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00           WEIGHT 1         0.86++         0.47++         0.44++         0.64++         0.00												
FLOWER 0.29+ 1.00 0.40++ 0.31+ 0.00 0.447+ 0.00 0.51++ 0.00 0.51++ 0.00 0.47++ 0.00 0.51++ 0.00 0.51++ 0.00 0.51++ 0.00 0.51++ 0.00 0.51++ 0.00 0.51++ 0.00 0.51++ 0.00 0.51++ 0.00 0.51++ 0.51++ 0.51++ 0.51++ 0.50++ 0.00 0.50 0.51++ 0.51++ 0.51++ 0.50++ 0.00 0.50 0.51++ 0.51++ 0.51++ 0.50++ 0.00 0.50 0.50++ 0.51++ 0.51++ 0.50++ 0.00 0.50 0.50 0.50++ 0.51++ 0.51++ 0.50++ 0.50 0.50 0.50 0.50 0.50++ 0.51++ 0.51++ 0.51++ 0.50++ 0.50 0.50 0.50 0.50++ 0.51++ 0.51++ 0.51++ 0.50++ 0.50 0.50 0.50++ 0.51++ 0.51++ 0.51++ 0.51++ 0.50++ 0.00 0.50 0.50++ 0.51++ 0.51++ 0.51++ 0.50++ 0.00 0.50 0.50++ 0.50++ 0.51++ 0.51++ 0.51++ 0.50++ 0.00 0.50 0.50++ 0.51++ 0.5			KG/HA	1.00	0.29+	0.	0.		0.86+	0	0.72++	0
MATURITY 0.53++ 0.40++ 1.00 -0.05 0.00 0.44++ 0.00 0.59++ 0. NUMBER 1 0.43++ 0.33++ 0.005 0.00 0.00 0.00 0.00 0.00 0.00 0		TO	LOWER	0.29+	1.00	0	0	00.00	0.47+	0	0.51++	0
NUMBER 1 0.43++ 0.31+ -0.05 1.00 0.00 0.64++ 0.00 0.31+ 0.00 0.31+ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		0.1	URITY	0.53++	++04.0	-	0	00.00	+ 77 0	0	0.59++	0
NUMBER 2 0.00 0.00 0.00 0.00 1.00 0.00 0.00 0.			BER 1	0.43++	0.31+	-0-	- 0	00.00	+ 19.0	0	0.31+	
WEIGHT 1         0.86++         0.47++         0.44++         0.64++         0.00         1.00         0.00         0.76++         0.           WEIGHT 2         0.00 <td></td> <td></td> <td></td> <td>00.00</td> <td>00.0</td> <td>0</td> <td></td> <td>1.00</td> <td>00.00</td> <td>00.00</td> <td>00.00</td> <td>0</td>				00.00	00.0	0		1.00	00.00	00.00	00.00	0
#EIGHT 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0			GHT 1	0.86++	++ 4 + + 0	0	0	_	1.00	00.0	0.76++	0
HEIGHT 0.72++ 0.51++ 0.59++ 0.31+ 0.00 0.76++ 0.00 1.00 1.00 0.75  LODGING 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			GHT 2	00.00	00.0	0		00.00	00.00	1.00		
LODGING 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			EIGHT	0.72++	0.51++	0.59	0	00.00	+91.0	0		-0
SHATTER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		LO	DRIDG	0.00	00.0	0.	- 6	00.0	00.00	00.0		
HARVEST 0.21 -0.23 -0.03 0.08 0.00 0.11 0.00 0.14 0. 0		SH	ATTER	0.00	00.0	0.0		00.00	00.0	00.00	0	
PLANT         0.09         0.38++         0.43++         -0.03         0.00         0.09         0.00         0.35++         0.           WEIGHT         0.52++         -0.05         0.46++         0.21         0.00         0.42++         0.00         0.25+         0.           OF SED         0.00			RVEST	0.21	-0.23	-0.0	0	00.00	0.11	00.0	0.14	
#EIGHT 0.52** -0.05 0.46** 0.21 0.00 0.42** 0.00 0.25* 0.			PLANT	0.09	0.38++	h ° 0	-0-	00.00	0.09	00.0	0.35++	
OF SEED 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.0			EIGHT	0.52++	-0.05	0.46	0	00.00	42	0	0.25+	
I 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			SEED	0.00	00.0	0		00.00	00.00	00.00	00 00	
II 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		DISEASE	H	00.00	00.0	0	0.	00.00	00.00	00.0	00.00	
III 0.00 0.00 0.00 0.00 0.00 0.00 0.00		DISEASE	II	00.00	00.0	0	0.	00.00	00.00	0	00 0	0.
		DISEASE	III	00.00	00.0	0		00.00	00.00	00.00	00.00	0

																					00 00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00 0	00-0	00	00.00	00.00	00.00	***
PERCENT OIL	20.0	17,3	17.4	17.3	16.6	16.7	17.0	17.7	16.1	18.6	18.7	10.1	15.5	17.6	17.5					01)	0	0	0	00.0	0	0	0.	0	0.	0	0	0	C		, C	9	. <
PERCENT	43.6	47.8	46.2	46.5	48.8	44.9	44.6	46.2	40.00	46.7	46.4	45.1	48.6	47.9	47.4					- PROB=.	00.00	00.00	00.00	00.0	00.0	00.0	00.00	00.00	00.00	00.00	0.00	00.00	00.0	00.00	1.00	00.00	000
QUALITY OF SEED	00.00	00.00	0.00	00.0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.0		00.0		00.0	.05 ++				00.0													
00 SEED WEIGHT	23.00	23.70	22.35	24.85	20,75	19.63	20.40	23, 13	21.68	20.90	18.40	22,35	19.48	18.83	18.65	-	- <	. 0	1.51	(+ - PROB=.0	0.52++	-0.05	0.46++	0.21	00.00	0.42++	0.00	0.25+	0.00	00°0	0.07	0.24	1.00	0	00.00	0.00	0 0 0
PODS PER 1 PLANT	21.33	10.75	13.48	18.30	9.30	9.75	8.80	16.90	8.27	16.88	13.28	16.50	16.68	15, 50	14.98	10 04	·	1000	1.96		9		- 0	-0.03		0	0	3	0	0				00.00			0.00
PLANTS E	ý	191.00	Ċ.	Š	Ö	å		m	7	0		~	o.	-			, R	0	15.02	TIONS	. 2	. 2	0.0	0.08	0	0.11	00.0	0.14	00.0	00.0	1.00	0.03	0.07	00.0	00.00	00.00	00.0
SHATTER	0	1.00	0	0	0	0	0	0	0	0	0	0	1.00	0	0	1.00		0	00.00	RRELA	00.00	0	0	0	0.00	0.00	0.00	0.00	0.00	1.00	0.00	00.00	00.00	0.00	00.0	00.00	00.00
																E	: E	: E	(SN=***	0 0	G/H	E M	ATURITY	NUMBER 1	UMBER 2	EIGHT 1	EIGHT 2	HEIGHT	LODGING	SHATIER	HARVEST	beld		OF SEED	H	II	III
VARIETY OR CROSS	JUPITER	DAVIS	HARDEE	CALLAND	BOSSIER	COBB	FORREST	WILLIAMS	HAMPTON 266A	COLUMBUS	IMPROVED PELICAN	AMSOY		CLARK 63	WOODWORTH	GRAND	RD ERROR OF A VA	CORFETCTENT			YIELD						NODULE					PODS PER			DISEASE	DISEASE	DISEASE
NUMBER		7	د رو	7	9	2	6	13	2	10	<b>3</b>	15	8		12		STANDA		5% LSD VI																		

YEAR 1975

EXPERIMENT 451

YEAR 1975
452
EXPERIMENT
83
TABLE

COUNTRY - REUNION ELEVATION - 850 M	LONGITUDE - 55 DEG. 3C MIN. E	DATE HARVESTEL - MARCH, 1976		
BEGION - AFRICA SITE - ST. DENIS	LATITUEE - 20 DEG. 53 MIN. S	975	FERTILIZER USED (KG/HA) - P 43.6, K 83.3 ARCUNT OF MOISTURE - 931 MM	SUBSTITUTE VARIETY - AMSCY

LODGING	E S E E E S E	35.03 % 0.27 % 0.27 % 0.27 % 0.27 % 0.27 % 0.27 % 0.25 % 0
FI ANT DEIGHT	76.25 71.25 75.35 75.35 75.35 81.25 45.00 843.75 85.00 86.25 87.50 97.50	62.41 10.90% 2.73 6.90%
NCDULE WFIGHT 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3.12 0.58 37.30% 1.67 1.67 0.00 0.00 0.524 0.43+ 0.43+ 0.43+ 0.13 0.13 0.18
NODULE WEIGHT 1	2	1.80 26.35% 0.68 0.68 0.13 0.49 0.49 1.00 0.49 1.00 0.43 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
NODULE NUMBER 2	153.50 213.25 213.25 236.25 261.25 161.25 193.50 24	232.20 50.14 43.19% 143.43 -0.14 -0.29 -0.21 -0.21 -0.18 -0.18 -0.19 -0.18 -0.18 -0.19 -0.18 -0.18 -0.19 -0.18
NODULE NUMBER 1	162.75 2142.75 138.25 158.75 161.75 177.25 177.25 170.50 177.25 169.50 154.00	170.41 22.81 26.78% 65.26 (+ - FROB -0.20 -0.10 1.00 0.00 0.00 0.00 0.00 0.00 0.
DAYS TO	135.50 133.00 125.00 129.00 119.00 137.00 104.25 106.00 107.25 110.00 148.00	722.18 1.86% 3.24 0.00 0.00 0.40 0.40 0.40 0.95 0.95 0.05 0.05 0.05 0.05 0.05 0.0
DAYS TO FLOWER	000000000000000000000000000000000000000	H H 0000000000000000000000000000000000
YIELE KG/HA	3387,34 3245,34 3132,71 2986,01 2855,01 2855,17 2370,06 2201,27 2201,27 2093,75 1869,95	2526.96 138.92 10.99% 397.39 0.00 0.00 0.013 0.034 0.034 0.034 0.034 0.034 0.034 0.034 0.024 0.024 0.024
		GRAND MEAN (***********  (**********  (**********
VARIETY CF CRCSS	LAVIS HAMPTCN 266A PCRREST BCSSIER COLUMBUS COLUMBUS CALLAND HARDEE CLARK 63 TRACY WOODWORTH IMPROVED PELICAN	STANLARD ERROR OF A VARIETY ISI VARIETY MEANS (******  YIELD DAYS TO A F DAYS TO A F DAYS TO B F DAYS
FNTEY	A E B B D D A G B B D D A G B B D D A G B B D D A G B D D A G B D D D D D D D D D D D D D D D D D D	A T S I I I I I I I I I I I I I I I I I I

PERCENT	20.0	19.6	20.2	20.6	20.7	20.0	22.7	20.5	19.8	21.1	17.6	23.7	18.6	23.8																		
PERCENT	44.8	45.4	43.2	40.4	47.1	43.4	45.9	45.3	43.3	44.9	46.4	43.3	48.8	41.5																		
QUALITY OF SEEL	1.00	1.25	1.00	1.50	1.75	1.00	2.00	2,50	1,00	1.50	2.25	m	2.93	3.00	1.79	0.22	24.67%	0,63	ROB=.01)	-0.61++	00.0	-0.67++	0.30+	0.25	-0.11	0.14	-0.61++	-0-34++	-0.13	0.13	-3.42++	0.03
130 SEED WEIGHT	23.65	23.98	17.55	22.93	22.08	20.88	25, 13	24.90	18,65	21,50	19.58	19.73	16.55	21.05	21, 29	0.82	7.65%	2.34	++ - PRO													1.00
POES PER 1	29.12	32.20	35.67	31.28	29.13	36.42	19.10	20.9)	26.83	24.63	24.03	16.03	58.18	14.03	28,39	2.59	18.22%	7.40	PROB=.05	.2	0	0.73++	0	-	7 .	0.10	6	9		-0.19		-0.40++
PLANTS	203.75	201.25	194.00	183.00	190.75	183,50	196.50	183.00	178.00	170.00	200.50	196,75	171.30	181.50	188.11	7.56	8.46%	***	- +)	0.20	0.30	-0°04	-0.25	++96-0-	-0.21	+65 *0	-0.07	-0.03	0.14	1.00	-0.19	0.14
SHATIER	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.33	1.25	1.00	1.30	1.00	1.00	1.00	1.02	0.07	-	***	0 N S	-0-14	0.33	0.17	~	-	0	~	quan	2	0	0.14	-	-0.21
													Z		Q :	LETY MEAN	VARIATION	(SN=***	EIATI	KG/H	FLOWER	MATURILY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HE IGHT	LCDGING	SHATTER	HARVEST	PLANT	WEIGHT OF SEED
VARIETY OF CROSS		HAMPION ZOOA	FCKKEST	BCSSIER	COIUMBUS	COBB	WILLIAMS	CALLAND	JE.	CIARK 63	TRACY	WCOLWORTH	VED PELICA	AMSOY		ED ERROR OF A VA	ICIENT OF	VARILTY MEANS (***	COBR	YLELD	O	C	12	i.i.	12.	NCDULE	FLANT			PLANTS	PODS PER	OUALITY
RNTER	9 +	- 0	0 1	() \	J) 4	7	12	11	2	10	7	4	(1)	14	5	STANLA	0	IST KE														

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	LODGING	0.0	000	.0.	00	0.0	. 0	0.0	. 0	00	00000		00.00	0	0.0	0		0.0	0	0 0	0	001
	PLANT		27.00	0 0					0 0	0 0	27.73 1.34 9.68% 3.84		53	0 9			0 0		. 37	91.0		00.00
	NODULE WEIGHT 2	3 0			9.	-		0.	• •	. c	2.96 0.22 15.02% 0.64	.01)	0.36++	00.	£,0	00.	+ 0	0.0	32	70	0	0.01
7.5	NODULE WEIGHT 1	9 1	000				9 0		9 0		000.00	+ - PROB=.	0.00	00000	0.00	00.00	0000	00.00	0.00	00.00	0.00	00.00
CTOBER, 19	NO DULE NUMBER 2	8.5	299.75	0.5	3.7	9.5	8.5	3.7	1.0	0 3	323.82 31.35 19.36% 89.60	B=.05 +	0.29+	0 0	0.0	<u></u>	7.0.	0.	.03	۳, د	. 0	00.00
- REUNION N - 125 BEG E - 55 DEG VESTED - 0	NODULE NUMBER 1	0.0		. 0	0.0	0.0		0.0		0,0	00.00	(+ - PRO	00.00	0	0.0	0	0	0,0	0	0,0	. 0	001
COUNTRY - ELEVATION LONGITUDI DATE HARY 3.0	DAYS TO	0.0	96	0.40	00	0.0	0	0,0	97.0	00	100.93 0.26 0.51% 0.74	S	0.13	0 0	9 0	. 53	9 0	8 4	.37			
6%, CLAY 44.0, K 8 348 MM)	DAYS TO FLOWER	7.5	100 100 100 100 100 100 100 100 100 100	0.6	9.0	0.0	0.6	0.6	0.0	8.7	39.82 0.65 3.28%	TION	1.00	0.0	.0	.36+	0.	0, -		2.0	.0.	000
. 20 MIN. S BEGUE NE 30, 1975 14%, SILT Z KG/HA) — P E — 594 MM	YIELD KG/HA	445.9	2058.33	801.6	720.7 428.6	8. 1	153.5	083.9	3.1	9.7	1437.07 90.91 12.65% 259.84	ORRELA	1.00	00.00	0.294	0.49++	0.00	0.00	0.66++	0°35++	00.00	00.00
REGION - APRICA SITE - ST. PIERRE LATITUDE - 21 DEG COOPERATOR - GUY DATE PLANTED - JU SOIL TYPE - SAND FERTILTZER USED ( AMOUNT OF MOISTUR NUMBER OF IRRIGAT SUBSTITUTE VARIET	ENTRY VARIETY NUMBER OR CROSS	7 DAVIS	9 PORTER CONTINUES		15 AMSOY 6 BOSSIER	CLARK 63	RODDWOKIN  R TRACY			4 IMPROVED PELICAN 5 COBB	GRAND MEAN STANDARD ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATION S% LSD VARIETY MEANS (*******"S)	υ	TO	MATURIT	NODULE NUMBER 2	[E2] (DE	LODGIA TOPENS	SHATTER SHATTER	PODS PRE PLANT	100 SEED WEIGHT		DISEASE II DISEASE III

																								00.00	00.00	00 00	00.00	00.00	00 00	00.00	00.00	00 0	00.00	00 00	00.00	00 00	00.00	00.00	00.00	1.00
	PERCENT	17.2	17.4	18.4	16.3	17.7	10.6	15.0	10.0	+ - / -	17.5	15.5	17.2	17.4	17.0	17.3	17.7						1)	00.00	00.0	00.00	00-0	00.00	00.00	00.0	0.00	00.0	00.00	0.00	00.00	00.0	0.00	0.00	1.00	00.00
	PERCENT PROTEIN	47	47.8	45.5	48.1	48.7	13.7	70.7	40.0	6.74	40.0	49.5	48.2	48.8	47.8	49.0	47.3						+ - PROB=.0																	0.00
lano	OUALITY OF SEED	00.00	00.00		00.0					00.00	00.00	0.00	00.00	00.00	00.00	0	00.00	c c	0000	00.00	% 00°0	•	= 05 ++											00.00						00.00
ano est mon	100 SEED WEIGHT	22,50	25.50	17.75	20.75	20.25	20 75	1000	17.00	7.00	00.71	13.75	20.25	19.75	20.25	17.75	21.50	7	٥.	040	4.05%		(+ - PROB=	0.35++	0.29+	0.47++	0.00	0.30+	00.0	++0+*0	++94.0	00.00	00.00	-0.07	0.16	1.00	00.00	00.00	00.0	00.00
	PODS PER PLANT	23.80	22.70	19.75	20.95	20.02	21 65	16.03	10.00	13.00	17.93	77 01	16.92	15.95	11.83	19.40	8.60		٠	1.36	3-87		S	0.66++	0.16	0.37++	00.00	0.03	00.00	0.32+	0.37++	00.00	00.00	-0.03	1.00	0.16	00.00	0	00.00	0
3	PLANTS	193.00	175.50	189.50	183.75	179.00	176.75	171.00	176 50	101 25	1010101	100.00	18/.25	180.00	9	180.25	0	181 72	71.0	200	₩ # # # # # # # # # # # # # # # # # # #		ATIONS	0.16	-0.11	-0.03	00.00	-0.16	00.00	0.01	-0.13	00.00	00.00	1.00	-0.03	-0.07	00.00	00.00	00.00	00.00
	SHATTER	1.00	1.00	1.00	1.00	1.00	1,00	1.00	1 00		•	00.	00.	00.1	1.00	1.00	1.00	1 00		0000	*00.0		ORREL	0.00	00.00	00.00	00.00	00.00	0.00	0.00	00.00	00.00	1.00	0.00	00.00	00.00	00.00	00.00	00.00	00.00
																		AND WEAN		ELI MEBN	00		U	KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HE IGHT	LODGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	j⊷i	II	III
	RIFTY	S	TER	EST	超	IAMS		TER	K 63	HEAUBOUDE		CN		BUS	HAMPTON 266A	IMPROVED PELICAN		2	0	TEME	MEANS			ELD	S TO					NODULE	PLANT			PLANTS	PODS PER	100 SEED	QUALITY	DISEASE	DISEASE	DISEASE
	R OR	DAVIS	JUPT	FORREST	HARDEE	WILLIAM	AMSOX	BOSSIER	CLARK 6	1000	A D V O B D	1) U = 1	CALL	COLUMBUS	HAMPI	IMPRO	COBB		COCCO CORCE	000000	LSD VARIETY																			
	ENTRY	7	<b>←</b>	6	3	13	15	9	1	12	α	12	1 (	2 °	7	7	r		E U	r,	5% I																			

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	PLANT	90.25 103.50 95.00	80.75 80.25 82.25 64.25 108.75 66.75	86.58 1.52 3.51% 4.36	0.000000000000000000000000000000000000
	NODULE WRIGHT 2	6.00	2003 2003 2003 2003 2003 2003 2003	2.57 0.17 13.39% 0.49	-0.14 0.43++ 0.836+ 0.836+ 1.00 0.51+ -0.40+ 0.24 0.31+ 0.33+ 0.32+ 0.32+
	NODULE WEIGHT 1	0.50 0.63 0.97 2.33	1.10 2.15 0.28 0.33 0.87 0.70	1.02 0.08 15.79% 0.23 + - PROB=_(	0.00 0.884 0.7834 1.00 0.7634 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
. 3 MIN. E	NODULE NUMBER 2	344.50 284.25 319.50 536.75	421.25 541.00 344.75 499.75 216.00 351.00 454.75	387.04 28.61 14.78% 82.16	-0.03 0.54++ 0.67++ 1.067++ 0.76++ 0.78++ 0.48++ 0.49++ 0.49++ 0.31+
RHODESIA - 1506 M - 31 DEG STED - M	NODULE NUMBER 1	F F 10 01 1	219.50 384.00 294.75 174.75 225.00 210.00	258.85 18.19 14.05% 52.23 (+ - PROB:	-0.03 -0.28 -0.28 -0.26 -0.28 -0.28 -0.28
COUNTRY ELEVATION LONGITUDE TICHAGWA DATE HARVI	DAYS TO	118.00 134.00 128.00 153.00	128.00 128.50 140.00 128.00 118.00	127.38 0.43 0.68% 1.24	0.024 0.093 0.056 0.056 0.057
CLAY CLAY	DAYS TO FLOWER	5000	48.00 55.00 55.00 55.00 44.00	51,75 0.00 0.00% 0.00 A T I O N S	0.14 0.693 0.680 0.727 0.017 0.0
ATTER ATTER BER 2 , SIL (AA) - 882 S - 3 IBI,	YIELD KG/HA	3547.38 3516.12 3088.95	3032.27 3016.44 3003.09 2938.09 2846.40 2765.97 2583.85	2991.88 127.81 8.54% 367.12	100 110 100 100 100 100 100 100 100 100
SALIS E TORS 1 PANTED 1 OF MO OF MO	1 1 1 1 1 1 1 1 1 1 1 1			GRAND MEAN IRIETY MEAN F VARIATION *******C	RG/HA PLOWER MATURITY NUMBER 1 NUMBER 1 WEIGHT 2 WEIGHT 2 LODGING SHATURE HARVEST PLANT WEIGHT OF SEED
REGION SITE - LATITUD COOPERA DATE PL SOIL TY RENTILI ANGUBUT LOCAL V	VARIETY OR CROSS	COLUMBUS ORIRI PORREST HARDEE	BOSSIER DAVIS SEMES HAMPTON 266A WOODWORTH RHOSA TRACY	GR STANDARD ERROR OF A VARI COEFFICIENT OF V LSD VARIETY MEANS (****	TIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT PLANTS PODS PER 100 SEED QUARTTY DISEASE DISEASE
	ENTRY	0 = L m	3 N	STANDAF	

2.25 0.29 25.66% 0.83

1.25 4.50 3.75 2.25 4.00 1.00 1.00 1.00 1.00

LODGING

YEAR 1975

EXPERIMENT 635

85

TABLE 86 EXPERIMENT 322 YEAR 1975

	LODGIN	0.0				9						1.	0			000		0.0	0	00	0,	0	0	0 0	0	0 0	00
	PLANT HEIGHT	20.85	0 0	30.75	ه ه (۳)		. 0	2.	2	m u	0 4	32.77	74	4.99		484	52	-	$\circ$		00	00.00	- (	V V	0.52++		000
	NODULE WEIGHT 2	0.0	.0.	000	0	0.0	0.	0	0.	0, 9	0	00.00	00	00.00	01)	0.0	0	0.	0,0	.0	0,0	9	0.	0,0	00.0	0,	000
76	NODULE WEIGHT 1	00	00	00.00	0	00	00	0	0	00	00	00.00	00	00.0	++ - PROB="	0 0	0 0	0	00	0	0	0	0		00.00	0	00.00
M G. 16 MIN. JANUARY, 19	NODULE NUMBER 2	7.6	9 0	38.00	8 . 2	5.0	ر 3 2	8.2	5.2	2 0	2.0	2	0.39	58.29	8=05		8 4			9 9		0 0		8 (	9 #		000
- RWANDA NN - 1325 DE - 30 DE S - RWANDA UVESTED -	NODULE NUMBER 1	0 11	6.5	0.50	8.0	2.2	70	0.	2.2	2.7	.0.	9	23	29.23	(+ - PRO)	-0.23	0.0	0	6	0	-	0	0	0.0	. 3.	0.	00.00
COUNTRY ELEVATION LONGITUDE GRONOMIQUES DATE HARV 24%, PH 6.0	DAYS TO	9.0	9 0	89.50	7.	9	000	~	9	œ r	າ ໝ •	2	80 0	8.04	S	m u	000	0	4- C	0	50	0	Sec. 1	- K	97	0	00.00
SCIFNCES A 1975 10%, CLAY	DAYS TO FLOWER	5.0	0.0	35.00	20.0	5.0	5°0	2.2	0.0	0 0	2 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °		94.0	1.30	ATION	0 -	- 0	0.33			0	00.00	0-	00	0.68		00.00
ICA DEG. 17 MIN. INSTITUT DES. - OCTOBER 3, SAND 65%, SILT ESTURE - 351 M	YIELD KG/HA	N C	200	1123,14	20	01	00	0	LO	00 0	and these	Pres	22.05	348.85	ORREL	000	-0.70++	23	-0.08	00.00	-0.48++	00000	0.39++	0.49	200	0.00	00.0
ESIE DISE	0 0 1 0 0 0 1									;	z			(********(****************************	Ü	KG/	MATHRI	NUMBER	NUMBER	WEIGHT	HEIG	SHATTER	HARVE	PLA	OF		H
RFGION - A SITE - KAR LATITUDE - COOPERATOR DATE PLANT SOIL TOF LOCAL VARI	VARIETY OR CROSS	TRACY	COBR	WOODWORTH HAMPTON 2663	N IS	CLARK 63	COLUMBUS	HARDEE	FORREST		BOSSIER	U	Δ	VARIETY MEANS (***			DAYS TO		NODULE	NODULE	PLANT		PLANTS	PODS PER	QUALITY	DISEASE	DISEASE
	BNTRY	7	13	£ F	12	10	7 0	2	80	91	חות		STANDAR	5% LSD VA													

	000000000000000000000000000000000000000
	- PROB=-01)
OF SEED 2 50 0 1 1 2 50 0 1 2 50 0 1 2 50 0 1 2 50 0 1 2 50 0 1 2 50 0 1 2 50 0 1 2 50 0 1 2 5 5 50 0 1 2 5 5 50 0 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.29 0.83 0.83 0.68 0.46 0.20 0.00 0.00 0.52 0.00 0.00 0.00 0.20 0.00
MEIGHT 15.72 14.49 10.81 11.94 11.94 11.94 11.16	14.70% 2.26 -0.79 -0.66++ -0.56++ -0.23 -0.00 -0.00 -0.00 -0.00 -0.01 -0.03++ -0.35++
<del>-</del>	26.05% 6.06% 6.07 6.00 6.0
	T I O N S S S S S S S S S S S S S S S S S S
SHATTER 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	ж о о о о о о о о о о о о о о о о о о о
ND MEAN	MEDAN TION TION GG HERA CGHT TICHT CGHT TICHT SEED SEED
A PA	STANDARD ERFOR OF A VARIETY  COEFFICIENT OP VARIA  TED VARIETY MEANS (*******  DAYS TO PL DAYS TO PL DAYS TO MATU NOULE WUMB NOULE WELG NOULE WELG PLANT HE POOS PER
NUMBER 13 11 11 11 11 11 12 14 10 10 10 10 10 10 10 10 10 10 10 10 10	STANDAR LSD VA
	- 151 -

YEAR 1975

EXPERIMENT 322

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COUNTRY - RWANDA ELEVATION - 1650 M	ACRONOMICURE - 29 DEG. 46 MINA	Es.7	
REGION - AFRICA SITE - RUBONA	LATITUDE - 2 DEG. 29 MIN. S CORPERATOR - INSTITUT DES SCHENCES AGRONOMICHES	ED	AMOUNT OF MOISTURE - 420 MM LOCAL VARIETY - PALMETTO

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	9 9 9 9 9 9 9 9 9	1 1 1 1 1 1 1	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
ENTRY	VARIETY		YIELD	DAYS TO	AY	S	OON		NODULE	PLA	
NOMBER	OR CROSS		KG/HA	FLOWER	MATURITY	NUMBER 1	BER	WEIGHT 1	WEIGHT 2	HEIGHT	LODGING
7	DAVIS		1890,32	72.50	122.00	317,75	134.25	1,07	1.59	07-40	1.25
16	PALMETTO		1473.72	51.50	135,50	230,75	360,50	0.95	2.70	58. 28	2.00
17	IMPROVED PELICAN	-	1424.25	72.50	141.00	201.25	169,50	1.09	1.32	81,30	1.50
10	COLUMBUS		1419.04	37.50	123.50	124.50	235,25	0.31	1.28	42,93	1.00
9	BOSSIER		1338,33	63.00	136.00	250.00	206.25	0.63	1,00	44,38	1.00
33	HARDEE		1111.80	70.75	143.75	436.50	310.25	1.94	2.27	47.28	1.00
5			911.31	45.00	101,25	141.75	175.50	0.27	0.50	24, 60	1.00
2	HAMPTON 266A		8 98 29	51.00	117.25	146.00	177.50	0.35	1.03	33, 28	1,00
6	FORREST		794.14	24.00	134.50	132,50	194.00	0.29	1.03	46.83	1,25
13	WILLIAMS		674.37	35.00	98.50	104.50	119.50	0.25	0.63	28, 23	1.00
12	WOODWORTH		. 648,33	35.00	101.25	128.25	135.50	0.53	0.77	28.48	1.50
14	CALLAND		624.90	35.00	105.00	88.25	108.50	0.26	0.86	31, 15	1.25
11	CLARK 63		624.90	35.00	102,25	98.25	111.75	0.20	0.43	27,98	1.00
15	SERMES		567.62	45.00	129.00	147.25	191.50	0.34	0,85	25,00	1.00
œ	TRACY		3	42.25	98.00	193.25	179.25	64.0	0.89	17.02	1.50
-	JUPITER		406.18	79.00	173.00	199.25	128.25	1.05	0.87	84.52	3,25
	95	GRAND MEAN	960.62	51.50	-	183.75	-	0	1, 13	41.79	1.34
CTRNDAL	CTRNDARD ERROR OF A VASTETY		201 20	1 112		20 23					
			41.91%	5.53%	12.	59.88%	10 m		72-44%	19, 95%	41.04%
5% LSD VA	VARIETY MEANS (***	(********)	575,35	4.07		157.25	44	0		11.92	0.79
		υ	ORREL	ATION	۲۸ د	(+ - PROI	B=.05	++ - PROB=.	.01)		
	YIELD	KG/HA	1.00		0.25+	0.25+		0, 33+	0	0.29+	-0.07
	DAYS TO	PLOWER	0~30+	-	0.65++	P 0.53++	0	0.60++	0	0. 73++	0.41+
		E-4	0.25+	0	-	0	4	0.42++		0	0.39+
		NUMBER 1	0.25+	0	0	÷.		0.	0	0.	0.02
		NUMBER 2	0.31+	0	0	0.					60.0-
		WEIGHT 1	0.33++	0	0	0				0.54	0.29+
		WEIGHT 2	0.47++	0 (	0						0.05
	PLANT	HEIGHT	0.29+	o	0 0		0. 19	0.54+		1.00	0.55+
		LOUGING	10.0-	<b>3</b> (	÷ 0			0.29+			1.00
	2 4 6	SHATIER HERMAN	+67.0-		0-0-	-0-10	1	00.0-		*	0.11
	CLARITY COOR DEED	TOTABLE	10.01	7 . 0 . 0 .	* O -	+87.0-	0.0	-0.14		-0.05	90.0
	A COUNTRIES	TLANT	****		° c	0.30+		0.51+			0.01
	100 SEE	TELGET.	0.0		0.24	0.18		0.20		ŧ	0.03
	DECEMBER 11	Ganc an	200	0	- 6		•	0.04			0.31
	DISTRICT	<b>₹</b>	***	• •	0° 38 + +		00-0-	50.0			0-27+
	DISEASE	H	0.00	0	00.00	00.00		00.00		000	000
					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9		

100 SEED QUALITY WEIGHT OF SEED 13.75 2.50 11.50 2.50 15.75 2.25 15.25 15.25 15.25 15.25 16.25 2.25 16.20 2.20 17.00 18	WEIGHT OF SEED PROTEIN  18.25
	ROTEIN ROTEIN A 40.6 41.1 43.7 42.9 42.9 42.9 42.9 42.9 42.9 42.9 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0

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COUNTRY - SENEGAL ELEVATION - 41 M	LONGITUDE - 15 DEG. 32 MIN. W	DATE HARVESTED - OCTOBER, 1975	.0, K 81.0	
REGION - AFRICA SITE - SEFA	LATITUDE - 12 DEG. 47 MIN. N	COCKERS OF THE COCKERS OF THE COCKERS OF THE PERSON OF THE COCKERS	SOLL IFE SAND, CLAI (178), FI 3.0 FFILLIZER USED (KG/HA) - N 24.0, P 54.0, K 81.0	ARGUNI OF ROISIUME - 1415 65 LOCAL VARIETI - 18-69-2

ENTRY	VARIETY OR CROSS		YIELD KG/HA	DAYS TO PLOWER	DAYS TO MATURITY	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LODGING
1	JUPITER		2025.40	34.00	94.75	730.00	842.50	6. 17	11,08	80.00	1,50
ıc	COBB		1987.90	31.00	88.00	127.50	135.00	1,33	1.93	36, 25	1.75
3	HARDEE		1779.52	33.00	88.75	392.50	592.50	3,35	6.80	38,75	1,25
9	BOSSIER		1616.99	29.00	83.50	327.50	325,00	1.93	3.20	30.00	1.00
11			1614.91	26.00	82.00	435.00	00"019	3,33	5.85	45.00	1.50
2	HAMPTON 266A		1556,56	29.00	87.00	242,50	352.50	2,33	3.43	32,50	1.00
15	18-69-2		1531.56	43.00	97.00	572.50	702.50	6 17	8.57	68.75	1.50
10	COLUMBUS		1506.55	26.00	81.00	307.50	325.00	1.85	2.60	43.75	1.50
13	WILLIAMS		1481.55	26.00	80.25	225.00	492.50	2.00	4.93	42.50	1.00
6	FORREST		1375.27	29.25	83.00	450.00	260.00	4.22	3,13	35.00	1.00
œ	TRACY		1223, 16	28.25	78.00	715.00	870.00	4.25	7.05	32,50	1.00
12	WOODWORTH		1210.66	26.75	77.00	102.50	117.50	1.03	1-68	40.00	1.50
3	IMPROVED PELICAN		1177.32	33.75	84.50	387.50		3.58	7.55	66.25	2.00
7	DAVIS		935.60	31.75	83.00	250.00	6.0	3.35	3.43	35,00	1.00
14	CALLAND		850.17	25.50	78.50	635.00	445.00	4.85	4.78	43.75	1.00
	GRAND	D MEAN	1458.21	30, 15	84.42	393,33	460.33	3, 31	5.06	14.67	1, 30
STANDARI	STANDARD REROR OF A VARIETY		213.90	76 0	0 88		152 23	1 40	1 12 1	300	200
		TATION	29.34%	6.26	2 00%		66.60%	80 03¢	#C 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	12.66	20.00
5% LSD VAR		**=NS)	611.36	2.70	2.53	*****	438.24	******	4.41	8.72	0.65
		Ü	E E		υ	1080 - +/	R= 05	-a0ad - ++	10		
				)	2	1	9				
	YTELD	KG/HA	1.00		0,34++	į	0	-0.17	0.02		
	DAYS TO I	PLOWER	0.16		0.81++		0	0. 20	0.36++		
	DAYS TO MAI	MATURITY	0.34++		+				0.38++		
		NUMBER 1	-0.02	0.08	0.15	1.00	0		0.41++	0.26+	-0.04
		NUMBER 2	90 0		0.20				++ 0.87++		
	Del .	WEIGHT 1	-0-17	0.2	0						
	(38 (73)	WEIGHT 2	0.02		0						
	PLANT		0.32+								
		LODGING	0.45+		0.24		ı	1			
		SHATTER	-0.13		00.00						
		HARVEST	0.25+		0.05						
		PLANT	0.70++								
		-	0.65++	'	0.07						
	0	pille .	-0.10	1	-0.17					,	c
	DISEASE	Н	0.03		-0.15			1	,		
	DISEASE	II	0.00		00.00		0	00.00			
	DISEASE	III	00.00		00 00			00.00			
		5 5 6 6 6	* * * * * * * * * * * * * * * * * * * *	1 1 1 1 1 1 1 1 1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9				1 1 1 1 1 1 1

TY	25	3.50	00	00	75	00	50	50	25	3.00	00	2.75	75	75	50	06'6	27 0	13%		++ - PROB=.01)	0.03 0.00	06 0.01 0.00 0.	-0.15 0.00	00.0 50.0	0.02 0.00	00.00 60.0-	-0.03 0.00	0.19 0.00	0°30+ 0°00	30+ 0.54++ 0.00	0.14 0.00	-0.02 0.00	++ -0.18 0.00	0.14 0.00	1.00 0.00	0.00 1.00	
O SEED QUALITY WEIGHT OF SEED		13,18 3.													11.53 3.	12.51 2.		9.97% 24.139	* *	- PROB=.05	++	-0.23 -0.06	1				0.05 0.0	1	0	0 ++	0	0- ++		-0.35++ 1.00		0.00	C
PODS PER 100 PLANT WI	6.1	0	35, 22	23.85	18.08	19.67	36.85	20.20	25.50	25.08	17.55	15.48	00	43	14.23	24.42	3.76	30.80%	10.75	÷	0 - 70 ++	0.51++	0.67++	0.16	0.20	0.18	0.24	0.51++	0.21	-0.01	0.18	1.00	0.40++	-0.16		00.00	00.00
PLANTS HARVEST	191.75	197.00	195.00	183.00	190.50	199.00	196.75	194.25	196.00	196.00	195.50	186.75	198.25	191.75	198.25	193.98	3-65	3.77%	****	ATIONS	0		0	0.1	0.1	0.0	0.0	0.1		0.1	1.0	0.1	0.0	0.0	0.1	0.0	
SHATTER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	1.00	1.00	1.07	00.00	%00°0	00 00	ORREL	-0.13	0.20	00 00	00 -0-	0.14	0.02	0.17	0 37++	0 36++	1.00	0-14	-0.01	++ 11 10 -	0° 30+	0.54++	00.0	00 00
													100			GRAND MEAN		PEC	(SN=******)	υ	KG/HA	PLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT	WEIGHT 2	HEIGHT	LODGING	₽-	HARVEST	-	H	OF SEED		II	
VARIETY OR CROSS	JUPITER	COBB	HARDEE	BOSSIER	CLARK 63	HAMPTON 266A	18-69-2	COLUMBUS	WILLIAMS	PORREST	TRACY	WOODWORTH	IMPROVED PELICAN	DAVIS	CALLAND	S	STANDARD ERROR OF A VARIETY		VARIETY MEANS (****		YIELD	DAYS TO	DAYS TO	NODOLE	NODOLE	NODULE	NODULE	PI.ANT			PLANTS	PODS PER	100 SEED	QUALITY	DISEASE	DISEASE	DISEASE
ENTRY	-	2	3	9	11	2	15	10	13	6	80	12	#	7	14		STANDAL		5% LSD VI																		

YEAR 1975

EXPERIMENT 404

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COUNTRY - SIERRA LEONE ELEVATION - 51 M LONGITUDE - 12 DEG. W

HARVESTED - DECEMBER, 1975

SITE - NJALA
SITE - NJALA
LATITUDE - 8 DEG. N
LONGITUDE
COOPERATOR - S.M. FUNNAH
DATE PLANTED - SEPTEMBER 19, 1975
SOIL TYPE - WELL DRAINED, GRAVELLY
FERTILIZER USED (KG/HA) - N 60.0, P 66.0, K 40.0
AMOUNT OF MOISTURE - 386 MM

ENTRY	VARIETY OR CROSS		YIELD KG/HA	DAYS TO FLOWER	DAYS TO	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LODGING
7 # O E & & & E & E & E & E & E & E & E & E	DAVIS CALLAND COLUNBUS WILLIAMS WILLIAMS WILLIAMS COBB COBB HARDEE SEMMES HAMPTON 266A JURITER HOODWORTH CLARK 63 IMPROVED PELICAN BOSSIER	Z	1483.96 1327.14 1280.30 1168.73 1161.19 1112.77 1116.01 998.74 958.82 958.65 948.73 916.85	30.00 28.25 28.25 28.75 28.75 33.00 28.50 28.50 28.50 28.50 28.50 28.50	77. 76.55 76.50 76.50 76.50 79.00 79.00 79.00 74.00 76.00	95.25 59.25 109.25 89.75 89.75 144.50 144.50 137.50 127.50 126.25 53.00	145.25 140.25 241.55 241.55 235.25 235.50 356.50 356.50 1185.25 144.75 1244.75 186.00 186.50	00000000000000000000000000000000000000	22.098 22.098 22.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098 23.0098	255 255 255 255 255 255 255 255 255 255	000000000000000000000000000000000000000
STANDARD 5% LSD VAR	GR STANDARD ERROR OF A VARI COEFFICIENT OF V 5% LSD VARIETY MEANS (****	GRAND MEAN VARIETY MEAN OF VARIATION (*********	1096.97 93.23 17.00% 266.46	29.65 0.27 1.85% 0.78	77.92 0.73 1.86% 2.08	102, 18 22, 19 43, 43% *******	188.20 44.65 47.45% 127.62 3=.05	0.49 0.49 35.25% ******	2.73 0.43 31.55% 1.23	30.65 2.51 16.36% 7.17	00000
8 9 9 9 9 9	TIELD DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANT PLANT PODS PER 100 SERSE DISERSE DISERSE	KG/HA PLORER MATURITY NUMBER 1 WUMBER 2 WEIGHT 1 WEIGHT 2 HAIGHT 2 KODGING SHATTER HARVEST WEIGHT OF SEED OF SEED	1.00 0.10 0.01 0.12 0.12 0.12 0.22 0.39 0.39 0.39 0.00	0.00	00000000000000000000000000000000000000	-0.01 -0.05 -0.12 1.00 0.66 0.66 0.00 0.00 0.00 0.00 0.00	0.07 0.08 0.08 0.08 0.08 0.08 0.08 0.08	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.22 0.23 0.15 0.56 1.00 0.00 0.00 0.00 0.00 0.00	0.00 0.27 0.27 0.27 0.00 0.00 0.00 0.00	000000000000000000000000000000000000000

ENTRY VARIETY					13 WILLIAMS	9 PORREST	S COBB	3 HARDEE	15 SEMMES	2 HAMPTON	1 JUPITER	8 TRACY	12 WOODWORTH	11 CLARK 63	4 IMPROV	6 BOSSIER		STANDARD ERROR OF A	COEPFICIENT	5% LSD VARIETY MEANS																		
I.	55		Ω	ns	MS	E.				N 266A	23		RTH	63	IMPROVED PELICAN	R	GRAND MEAN	VARIETY	OF VARTA	******)	U			MATURIT	NUMBER		WEIGHT	32	PLANT HEIGHT	LODGING	SH	HA		WEI	OF SEE			DISEASE
000000	SUALLER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	00-0	0.00	00.00	CRREL	00.00	00 00	00.00	00 00	00 00	00.00	00.00	00.00	00.00	1.00	00 0	00.00	00.00	00°0	00.00	00.00	00.00
PLANTS	nan vest	217.00	193.25	199.25	169.75	186.25	182.25	174.75	220.00	176.50	189.50	188.00	140.75	149.00	215.00	171.50	184,85	)	10.20%	26.94	ATION	0.29+	0.29+	0.26+	-0.23	90 - 0 -	0.07	0.03	90.0-	00.00	00.00	1.00	-0.13	-0-14	00-0	00.0	00.00	
PODS PER	FLANT	19.78	19.20	18.28	VO.	16.93	0	22.55	16.83	18.63	23,53	12.80	18.68	14.98	19.78	18.20	18, 32	25.50	200 40	2	ς.	0.39++	0.36++	0°36++	0.08	0.27+	0.14	0.27+	0.40++	00.00	00.00	-0.13	1.00	-0.23	00°0	00 00	00.00	00.00
100 SEED	LUSTUM	13, 13	14.05	13.03	14.95	11.45	12,98	11,43	12,60	13.00	11.38	14.88	13,88	8	9.80	9	12.73	0.46	7 16%	1.30	(+ - PROB=.0		-0.55++	,	0.07	-0.23	-0.02	-0.13			00 00	-0-14	-0.23	1.00	00.00	00.00	00.00	00.00
OUALITY	OF SEED	00-0	00.00	00.0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.0	00.00	00.00	00.0	00	00-0	300	00.00	++ 50°=		00.00		00.00	00.00	00.00	00.00	00.00	00 0	00.00	00.00	00.00	00.00	1.00	00°0	00°0	00.00
																					- PROB=.01)	00.00	00.00	00.00	00.00	00.00	00 0	00.00	00.0	00.00	00.0	00.00	00.00	00.00	00.00	1.00	00°0	0.00
																					1)	0.00	00.00	00.00	00.00	00.00	00.0	00.00	00.00	00.0	00.0	00.0	00.00	00.0	00.00	00.00	1.00	0.00
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COUNTRY - SWAZILAND ELEVATION - 150 M TONCTAINE - 24 NEC 66 MIN E	OWVELD EXPERIMENT STATION DATE HARVASTED - MARCH	CLAY 50%, PH 7.7	687 MM (550 MM FROM IRRIGATION)
REGION - AFRICA SITE - BIGBEND LATITUDE - 26 DEG. 52 MIN. S	STS	SCIL TYPE - SAND 30%, SILT 20%, CLAY 50% FERTILIZER USED (KGZHA) - P 40.0. K 60.0	AMOUNT OF MOISTURE - 687 MM LOCAL VARIETY - PICNEER 701

ENTEY	VARIETY OR CROSS	YIELD KG/HA	DAYS TO FLOWER	DAYS TO MATURITY	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LOLGING
7	DAVIS	2917.25		134.00	43.53	94.75	0.00	0.33	67.83	3, 25
2, 4	FORREST	2750.55	00 " † †	136.00	80.00	110,75	00.0	00.00	52.48	1.75
ی ر		2129.11		134.00	65.25	168.00	00.0	00.00	62.53	1.75
7 2	HAMPTON ZOOA	2583.85		143,75	75.25	85,50	00.00	00.00	71.32	2,50
200		2563.01		134.00	62.50	101,50	00.0	00.00	55.03	1, 25
n cr	TRACY	2563.01		136.00	79.75	156.25	0.00	0.00	48,35	2.75
חנ	WILLIAMS	2542,17		99.50	81.50	66.75	00.00	00.00	45,85	1,00
e) (	COBB	2500.50		147.00	20.50	52.75	00.00	00.00	61.50	2-00
") (	HARDEE	2396,31		147.03	52.50	107.25	0.30	0000	89.25	3.75
2 5	COLUMBUS	2333,80		104.50	63.50	80.00	00.0	00.00	62,95	1,50
- :	CLARK 63	2229.61		104.50	46.53	81.50	0.00	0.00	60.60	1.50
14	PIONEER 731	2062.91		134.00	55.50	138.50	00.00	00.00	54.75	1.75
7	WOODWORTH	1812.86		99.50	61.25	45.00	00.0	00.00	45.68	2,00
- :		1521,14		157.00	28.33	55,50	0000	0.00	116.93	4.53
3"	IMPROVED PELICAN	1083.55	68.0	149.50	29.50	32.75	00.0	00.00	107.80	3.00
		2306.02		13	13 /		0.00		66.88	2.28
STANDA	STANDARD ERROR OF A VARIETY MEAN	201.97			-		00.00		4.58	0.32
O LOL	$\vdash$	17.52%	11.77%	% 70 0 77	45.36%	%0L°6ħ	0.00%	%00.0	13.70%	27.92%
	LOL VAKLETI MEANS (**********)	576.44			,		00.00		13.07	0.91
	U	ORREL	ATION	S	(+ - PROB	3=, 0.5	++ - PROB=	.01)		
	XIELD KG/HA	1.00					C	0	44810	000
	TO	-0.32+	1.00		+ -0.37++	-0.15	00.0	00 00	0.66++	0.62+
		-0.11					J	00.00	++09*0	0.56+
		0.20					0	00.00	-0.43++	-0-34++
		0,32+					0	0.00	-0.34++	-0.02
	THOLLA	00.0			00.00		_	00.00	00.00	0.00
	**	0.00					0	1.00	00.00	0.00
	FLANT BEIGHT	-0.45+					0	00.00	1.00	0.61++
	SN TSGOT	+67.0-				-0.02	0	00.0	0.61++	1.00
		++9+0-				-0.28+	0	00.00	0.41++	0.38++
	DODG DED DIAME	0°12		-0-14	0.16	†0°0	0	00.00	90.0	-0.01
	i	0.23				0.02	0	00.00	0.09	0.26+
		0.13		-0.22	0.06	0.01	0	00.00	-0.27+	-0.10
	USES OF SEED	+62.0-			-0.09	90.0-		00.0	0.26+	0.30+

	PERCENT	22.2	23.0	21.6	21.4	21.1	23.2	23.2	21,1	21.1	24.6	20.1	25.0	19.2	20.8																				
	PERCENT	43.7	42.4	43.7	44.6	45.8	42.5	41.4	45.5	45.3	42.3	44.0	40.8	45.5	45.6																				
UEC)	UNALITY OF SEED	2.25	3.75	2.75	2.00	3.25	1.50	1.75	2.33	3.00	2.50	3.00	2.00	4.25	2.50		7.55	0.33	0.95	B- 011	0	-0.29+	0.13	0,30+	60 "0-	-1.16	00°0	0.00	0.26+	0.30+	0.36++	0.12	-).14	10.00	
(CONTINUED)	100 SEED WEIGHT	18.90	15.43	18,35	16.08	17.05	19.28	17.18	15,35	16.25	19, 10	21.50		17,83	. 7	00 24	07.7	7 25%	1.78	++ - DBOB-	ı	0.13	- ).12	-0.22	0.06	0.01	00.00	0.00	-0.27+	-0.10	-0.29+	90 .0 -	- 3.38	00 - 1 - 00	5 5 6
EAR 1975	PODS PER PLANT	50.85	44.33	53.78	39,58	50.28	23.28	108.05	66.23	30.08	26.90	39.73	23.48	43.33	35.23	711 211	40.4		16.40	BOB= 05		0.23	0.32+	0.54++	-0.20	0.02	00.00	1.33	60.0	0.26+	0.05	-0.62++	1.00	10°0	
619 YE	PLANTS	179.75	146.00	162,33	175.75	152.75	176.50	57.75	157.00	167.75	144.75	146.25	133, 25	14 ), 75	171.00	152 13	20.00	11.71%	25,42	4)		0.15	-0.10	-0.14	0.16	0.04	00.00	3.30	90.0	-0.01	-0.08	1.00	-0.62++	0.00	1
XPERIMENT 6	SHATIER	2.00	1.00	1.33	1.00	3.00	1.75	2.50	1.15	27.7	1.75	1.00	1.75	3.25	3.50	1,95	0 0 0 C	33.94%	76.0	N N	5	-0.46++	0.28+	0.22	-0.21	-0.28+	0.00	0.33	0.41++	0.38++	1.00	-0.08	0.05	0.36++	
TABLE 90 EX	14 14	DAVIS o PODDBOT	BOSSI		15 SEMMES	TRACY	T WITH AMO				- 3		7 7	-	4 IMPROVED PELICAN	GRAND MEAN	VARIETY	NT OF VARIA	S% ISI VARIETY MEANS (********S)	CORRELATIO	4 4 3	YIELD KG/HA		MATURIT	NUMBER	NCDULE NUMBER 2	WEIGHT	MEI	PLANT HEIGHT	Lobging	S :	LANTS HA	-	ALITY O	
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EQ	NOCULE WEIGHT 1	0	00.00	0	0,0	. 0	0.	0.0	0	0	0.	0.	0	00.00		800.0	+ - FRCB=.	0.0	0,0		0.0	1.0	0.0		0.0	0.0	0.0	0
D 10 MIN. ARCH, 1976	NCDULE NUMBER 2	86.)	161.00	17.7	5.	7.60	80.2	5,0	71.7	0	92.0	43.5	0.60	191.25	7000	• #	± 0 € +	0.02	- 3, 19	0.24	. 1.33	0.00	00.00	-0.36++	3,33	-0.21	-0.05	0.02
SWAZILAND N - 800 M E - 31 DEG. STATION VESTED - MA	NODULE NUMBER 1	43.	252.50	52.	76.	9 9	02.	87.	0 0	63.	25.		23.	7.1	00000	35	(+ - PROE	0.1	7.01	1.00	0.24	0.0	0.00	0.35+	0.00	0.11		-0.09
CCOUNTEY ELEVATIO LCNGITUD RESEAECH DATE HAR #%, PH 6.	DAYS TO	2.0	132.00	4.0	4.0	2:0	2.0	100	4.3	4.0	1.0	0.4	1.0			0000	Ω.	-0.37++	0.72++	-0.41++	-0.14	0.00	0.00	0.61++	- ~	-0.05	÷ :	0.13
ST MALKERNS 1975 1975 CLAY 20 MM	DAYS IC FLOWER	00.49	73.00	68.53	100 00	64.00	64.00	76.50	73.00	73.00	87.00	73.30	108.00	74.4)	2 0	3. 15	I I C N	-0,37++	1.33	-0.46++	-3.19	0.00	0.00	+ +		(X)	+ 1	0.26+
32 MIN. AGBCNOMI VEMBER 16 61%, SITT E - 127 IE - 127 IEONEER 76	YIELD KG/HA	3792.42	3469.44	3183.97	3093,12	2913.08	2688.04	2633,86	2506.75	2396.31	2204.61	2031,66	1319.01	2727.41	14.4.6.5 10.2.1.00	だりま。70 分分分分分 分分分分 分分 分 分 分 分 分 分 分 分 分 行 行 行 う う う う	ORRELA		-0.37++	0.10	0	0.	۰, د	0.13	٦.	. 2	2	-0.26+
REGION - AFRICA SITE - MAIKERNS LATITUDE - 26 DEC CCOPERATOR - CROI CATE PLANTEI - NG SCIL TYPE - SAD FERTILIZER USED AROUNT OF MOISTURE ICCAL VARIETY - E					D FT T( & N	=======================================			A					GRAND	TTTTTT	_	S	24	TO FI	NON	NUME	国	DIBNT HEIGHT Z	10	SHATTER	H	E 6	QUALITY OF SEED
R N I O I O E R I	VARIETY OR CROSS	WILLIAMS	COLUMBUS	SEMMES	,		WOODWORTH	TRACT	HAMPTON 266A		HARDEE	BOSSIER	JUPITER	A DO COCCA CAR	TO THE TOUR OF A	VARIETY MEANS		Y	DAYS	ON	NC	O C	2 0	4		PI	FOLS PE	00 B
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ICEGING

PERCENT	OIL	20.3	20.3	21.1	20.0	21 0	2 0 0	7.61	19.00	20.3	20.1	18.7	20,4	18.2	7000	0.02	20.0	17.4																			
PERCENT	FROIETIN	44.9	46.4	41.7	44.8	42 3	2 . 7 . 7	44.7	44./	40°T	44.5	44.0	43.0	44.5	3 0	0.01	45.5	46.5																			
OUALITY	OF SEED	2.00							00.7										2.47	75	1000	R 1 ( 0 1 f)	ROB=.01)	-0.26+	, (	, ,	1	· C	> <	> 0		> <	> 0	° /	- 3.2	0	-0
100 SEED		25, 63	21,33	16.48	20.43	21.08	1/1 33	24 30	20 25	111111111111111111111111111111111111111	20.02	19,63	20.60	22.73	00000	00000	1 N D D	17.80		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 0		++ - PRO	0.29+	-),51++	-0.51++	3.32+	0.00	77.0		0.00	++10.01		0000	90°°C=	77.0-	1.33
PODS PER	7 N W 7 2	24.15	30.68	70.48	57,38	60.83	123.85	37.68	1000	25.4.20	00.700	56.88	68.20	85, 15	166 53	2000	04.0	130.73	92.44	~	3 10	33,71	ROB=.05	-0.22	0.42++	0	77	-0.05				10.00	1000	2 (	++70°0-	0 1	-3.22
PLANIS		18 1. 50	155.50	175.50	155,50	164.75	150,00	109.50	75,00	12 10	20000	123.13	. 7		C	127			125.82	15.83	25.17%	45, 18	d - +)	0.23	-), )8	-0.05	0.11	-0.21	00.0		0.00	0-43++				10°C2+	-0.39
SHATTER		1.00	00.	1.00	1.30	1.00	1.00	1.00	1.00	1.00		00.	1.00	1.00	1.00	1 ) 3	0 0	1.00	1.00	0.00	0.00%	0.00	O N S	0.00	0.00	00.00	0, 00	00.00	0, 13	0.00	00.00	00.00	1.00				0.03
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VARIETY OR CROSS		ALLLLA GIO	COLUEBUS	LAVES	SHEMHS		IMPROVED PELICA	CLARK 63	WOODWORTH	COEB	TRACY	7		PICNEER 731	HARDEE	BOSSIER	i p	d d		STANDARD ERROR OF A VI	COEFFICIENT OF	1	CCB		DAYS	DAYS	NOLULE	NODULE	NCDULE	NCDUI	FLAI			PIANT	DOT STOR	7370 [[	1336 661
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ο 3 Ρκιι, 197	NODULE NJESER 2		$\circ$	0		· <	9 1	0	0	0.	0.	- 0	0	.00	200.0	0	B=.05	9	0.	ુ લ	9	. 0	0	0.	00.0		, 0	0	0
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COUNTRY ELEVATION LONGITUDE IS RESEACH DATE HARV 30 %, PH 5.7	DAYS TO	7.0	177.50	3.2	7.0	2	0.0	7.0	7.0	90.5	2.0	40.7	9	. 78	4.23%	ф (2)	vs	0	00	0.0	00.0	0	0.	.80	0.34+	υ° :	7-	. 7	. 2
MALKEKN 75 CLAY 0, K O	DAYS TO	0.0	91.00	0.0	7.0	0 :	5 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	2 . 7	5.0	1.0	4.6	0		• 56	3.65%	. <del>*</del>	NOILA		9		9 1					9	0 1	े प्रते क	
A SEG. 15 MIN. S SEG. 15 MIN. S NOVEMBER 19, 19 NO 55%, SILT 15% O (KG/HÅ) - P 40 FUA. = 1241 MM - PIONEER 701	YIELD KG/HA	246.2	2014.99	808.6	650.3	 	- 6	9.5	3.1	2.2		9 . 6	3° 1	39.6	34.52%	7-2	ORREL	0	_	O (	20	0	0	0.1	10.04	- 0	0 0	- ques	-0.22
REGION - AFRICA SITE - MALKERNS LATITUDE - 26 DEC COOPERATOR - CROE DATE PLANTED - NC SOIL TYPE - SAND FENTILIZER USED I ABGUNT OF MOISTUM	1 t 1 t t 1 t 1								N				RAND	ITI	VARIATION	(SN=****	O								LODGING				
REGION SITE - LATITU COOPEN DATE P SOIL T FERTII AMOUNTI	VARIETY Or CROSS	FORREST	PIONEER 701	COLUMBUS	DAVIS	RILLIAMS	1 0	TRACY	IMPROVED PELICA	HAMPTON 266A	JUPITER	CLARK 63		RD ERFOR OF A		SD VAPIETY MEANS (***		XIELD	DAYS TO	OT SYAU	E ID CON	ETAGON	NODULE	PLANT		SINGIG	PODS PER	100 SEED	QUALITY
	ENTRY	Ф r	12	6	9	<u>⊢</u> Γι	, tu	7	コ	2	_	10		STANDA	1	S% LSD V													

-0.04 0.24 0.00 0.00 0.00 0.00 0.00 0.27 0.27

PERCENT	18.4	15.1	0.01	10.7	16.0	18.7	10.1	17.8	13.4	15.8	17.4	19.1	18.4																	
PERCENT	44 1	46.6	76.2	40.0	7.67	47 7	49.1	47.9	47.9	47.9	44.4	44.0	45.2																	
QUALITY OF SEED	D 25	3	000	000000000000000000000000000000000000000	7 6	٠ د ١ د د	00.4	4.25	00 * 1:	4.25	3.75	4.25	3.00	3,88	10 tt	QC1 = 77	PROB = . 01)	-0.22	0.16	0.24	00.00	00.0	00.0	00.00	0.34+	00.00	-0.03	++0+*0	-0.16	-0.20
100 SEED WEIGHT	19 20	16.48	000000	200	10 52	11.18	18.00	20.93	19.50	12.95	20.18	20.73	19.93	19.64	1.36		++ - PRC	0.11	++0 +0 -0-	-0.29+	00.00	00.00	00.00	00.00	-0-35+	-0.23	-0.02	-0.23	0-0-	1,00
PODS PER PLANT	47.48	76.46	97.50	30.00	37.90	40.70	31.85	37.73	52.60	60.70	38.90	5.1	5.0	49.22	9.18	, m	PROB=.05	0.47++	0.34+	0.11	00.00	00.0	00.00	00.00	+0.0-	-0.10	-0.03	-0.41++	1.00	70.0-
PLAN IS HARVEST	130.50	27.75	45.25	85.25	120.75	00 - 86	115.25	129.00	69.50	151.75	71.50	103.00	30.50	90.62	35 03%	45.53	1 + +)	-0.02	0.14	0.29+	00.00	00.0	00.00	00.00	0.47++	0.27	0.12	1.00	-0.41++	-0-23.
SHATTER	1.00	1,75	1.00	1.00	1.50	1.00	1.25	1.50	1.00	1.25	1.25	1.50	1.00	1.23	0.70	***	S N O	-0.10	0,36++	0.37++	00.00	0.00	00.0	0.00	0.30+	0.01	1.00	0.12	0.0	70.0-
										Frage				GRAND MEAN	VARIATION	(SN=******	ELATI	KG/HA	FLOW	C-1		NUMBER 2	THEFT	WEIGHT 2	HEIGHT	LODGING	SHATTER	HARVEST	TNALT	TUDTUM
VARIETY OR CROSS	FORREST		PIONEER 731	COLUMBUS	DAVIS	WILLIAMS	BOSSIER	SEMMES		D D	HAMPTON 266A	12 12	CLARK 63		COEFFICIENT OF	*	COLR	YIELD	DAYS TO	TO	E E	O LE	A TOOK	NODULE	PLANT		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PLANTS	100 SEER	ATTO OAL
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	PLANT HEIGHT I	73.50 289.50 289.50 120.70 120.70 120.70 170.00 170.00 170.00 120.00 120.00 120.00 120.00	
	NCDUIE WEIGHT 2		
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2 MIN. E UNE, 1976	NCDULE NUMBER 2		200000000000000000000000000000000000000
TANZANIA N - 506 M E - 37 DEG VESTEL - J	NODULE NUMBER 1		
COUNTRY ELEVATIO LONGITUD GA DATE HAR	DAYS TO	117.25 85.50 95.75 106.50 102.75 100.75 101.50 75.22 4,66%	
6 E . T . MMEA 25 . 0 . F 7	LAYS TO FLOWER	9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	533 + + + + + + + + + + + + + + + + + +
42 MIN. S N. PATEL, M ARCH 5, 197 LCAM (KG/HA) - N SE - 463 MM SE - 463 MM	YIELD KG/HA	1443.21 1187.74 1050.63 1045.21 1009.37 954.77 954.77 9575.53 575.53 536.36 95.02 915.75 124.68	B E L 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
- AFFICA ILCNGA DE - 6 DEG TOFS - P. TOFS - P. ANTED - M PF - SAND ZER USED OF MCISTU OF MCISTU	* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N RAND REAN TETY MEAN ************************************	NNONUMBER SELECTION EN SELECTIO
REGICN SITE IATITUL COPERA DATE PI SCIL TY FERTILI AROUNT NUMBER LCCAL V	VARIETY OR CROSS	H/1 MEROVEL PELICA ALLIAMS AULTER AMPTON 266A CERREST CRREST COSSIER ARACY OBB CLUMBUS ARDEE CODWORTH G G ERROR OF A VAR CETY MEANS (****	N N L LOCOCKK
	ENTER	122 122 132 133 133 133 133 133 134 135 135 135 135 135 135 135 135 135 135	

ICEGING

UED)	QUALITY OF SEED		00.00	00.00	0.00			0.00	00.00	00.00	0.00		,		00.0	00.0	0.00	00.00	c c	00.0	00.00	0.00%	00.0	PROB=_01)		00.0	),))	00.00					50				000	00.0	1.00
(CCNTINUED)	100 SEED WEIGHT		00.00	00 0	0000	00.00		0000	00.00	00.00	0.00	0.00	0000			00.00	0.0	00.00	0	0000	00.00	C.CO%	00.0	++ - PB(									• 0						0.00
YEAR 1975	PODS PER PLANT		47.00	32.25	27.))	16.75	11 53	7	77.72	14.00	13,75	31,75	12,50	21 25	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	14.15	22.53	15.00	21 59	0000	2.29	21.10%	6.52	PROB=.05						00.00			0.81++						00.00
999 YE	PLANTS		160.25	176.25	165.75	110.00	145.75		32.00	135,00	139,25	92.50	112,25	46.75		000	35.75	15.75	107.63		13,13	24.39%	37.55	+)	,	++08.0	0.34++	0.13	0.33	00.00	20.00	00.00	0.55++	3, 33	00.00	1,00	0.29+	0.00	00.00
EXPERIMENT 9	SHATTER		00.0	00.00	0.00	00.00	00.00		000	00.0	0.))	00.00	00.00	00.00			0.0	0.00	00-0	000		NOO * 0	00.00	CNS		00.00	0.00	00.00	0.00	00.00	00.00	00.00	00.00	0.))	1.00	0.00	0.00	0.00	00.00
93 EX					Z														GRAND MEAN		NACT TERM	OF VARIATION	(SN=******)	LIATIO				MATURIT	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LCDGING	SHATTER			選	CF SEED
TABLE	VARIETY OF CROSS	007	16/192		IMPROVED PELICA	WILLIAMS	DAVIS	JUFITER		HAMPION ZCOA	FCRREST	BCSSIER	TRACY	COBB	CCLUMBUS	HADDER FINDER	HORDEL TO CONTRACT	WCODWORTH		STANDARD FRROR OF A VAR		TOTENT	VAKLETY MEANS (***	CCRR	***	A TETR	DAYS TO	DAYS IC	NCEULE	NODULE	NCDULE	NCDULE	PLANT			PLANTS	POLS PER	100 SEED	QUALITY
0 0 0 0 0 0 0 0 0 0	FNTEY		* C	7 -	<b>3</b> (	7.5	1~	_	. ()	ν (	י רג	Ų	w	u,	10	,,	1 = =			STANDA		0	7 7 7 K																

		ULE PLANT 1_2 HEIGHT LOLGING .18 32.50 1.00 .23 36.25 1.00 .23 34.50 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 60.25 1.00 .25 21.25 1.00 .27 75 1.00 .27 75 1.00 .27 75 1.00 .27 75 1.00 .27 75 1.00 .27 75 1.00	.83 30.87 1.00 .35 1.57 0.00 .93% 10.19% 0.00% .00 4.51 0.00 .26 0.35+ 0.00 .33+ 0.51+ 0.00 .26 0.00 .26 0.00 .26 0.00 .26 0.00 .27 0.00 .29 0.00 .25 0.00 .25 0.00 .25 0.00 .25 0.00 .25 0.00 .25 0.00 .27 0.00
	76 B	WODULE NOD OLE OF STATE OF STATE OLE OLE OLE OLE OLE OLE OLE OLE OLE OL	0.82 0.24 37 0.62 1 0.23 0.47++ 0.36++ 0.27 1.00 0.26 0.26 0.06 0.03
	Zania 020 H 7 DEG. 17 Min. E - AUGUST, 19	ULE NUMBER 2 25 187 00 75 102.75 100 102.75 00 162.25 00 163.75 00 163.75 00 147.50 25 198.25 00 103.25 00 117.25	23.77 23.38 47% 79 ******* 79 ******* PROB=.05 *.45 0.03 45++ 0.27 0.03 45++ 0.27 0.00 0.40++ 0.27 0.00 0.40++ 0.37 0.00 0.40++ 0.33 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.15 0.00 0.10 0.00 0.10 0.00 0.10 0.00 0
.R 1975	COUNTRY - TANNEL ELEVATION - 10 LONGITUDE - 37 DATE HARVESTEI	ATURITY NUMBE 97.07 118 91.75 58 90.00 67 89.00 102 97.00 148 126.00 148 126.00 148 126.00 148 126.00 148 126.00 148 126.00 148 126.00 148 126.00 148 126.00 148	98.60 0.42% 0.42% 0.60 1.00 1.00 1.00 1.00 1.00 1.00 0.15 0.00 0.0
630 YEA	S & S & S & S & S & S & S & S & S & S &	DAYS TO FLOWER M 38.00 28.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00 26.00	30.46 0.00% 0.00% 0.00% 1.00%
EXPERIMENT	G. 12 MIN. I. CHAMBUY APRIL 5, 1	XIELD KG/HA 2332.97 2301.29 2301.29 2094.17 1907.88 1800.78 1626.92 1115.64 735.56 162.53	1415. 121. 121. 3477. 3 477. 00. 00. 00. 00. 00.
TABLE 94	BEGION - AFRICA SITE - LYAMUNGU LATITUDE - 3 DEC COOPERATOR - R.J DATE PLANTED - A	S S S S TH	GRAND MEA OF VARIATIO  ***********  ELD KG/H  TO MATURIT  ULE NUMBER  ULE WEIGHT  ANT HEIGH  LODGIN  LODGIN  LODGIN  LODGIN  SHATTE  NEED WEIGH  OUTS HARVES
		TABLETY OR CROSS DAVIS IMPROVED PEL FORREST BOSSIER WILLIAMS COLUMBUS JUPITER CALLAND SEMMES HARDEE TRACY HAMPTON 266A WOODWORTH	NUTARD ERROR OF A COEFFICIENT YI DAYS DAYS NOI NOI PIL

UED)	QUALITY OF SEED	1.75	2.25	2.25	1.50	3.00	3 . 50	3.00	2.50	2.00	2 • 25	3 • 25	1.75	2.48	0.25	20.28%	0.72	- PROB=.01)	-0.06	0.23	0.18	0.02	0.04	0.23	0.01	0.39++	0.03	-0.45++	0.19	0.17	-0.28+	1.00
(CCNTINUED)	100 SEED WEIGHT	21.40	17.23	20.28	19,10	18.93	20.60	20.55	20.68	21.25	04.81	19.58	19.03	19.77	09 0	840.9	1.71	++ - PRC	0.10			0.03	0.11	0.03	0.27			1			1.00	-0.28+
YEAR 1975	PODS PER PLANT	30.73	31,30	28.92	34.80	35.45	36.95	27 - 53	19,35	42.07	11.07	28.35	17.97	29.72	2.28	15,33%	6,53	PROB=.05	0.24	0.45++	0.45++	0.18	0.15	0.16		0.46++	0.00	-0.48++	-0.06	1.00	0.06	0.17
630 YE	PLANTS	147.00	150,75	140.75	93.75	117.50	121.50	100.00	144.25	70.00	00.07	126.00	36.75	114.96	11.40	19.84%	32.71	1 - +)	0.70++	0.12	-0.22	0.21	90 0 0 -	0.11	0.02	0,12	0.00	-0.26	1.33	-0.06	0.09	0.19
EXPERIMENT 6.	SHATTER	2.30	1.00	2.00	1.00	1.00	1.00	1.00	1.00	00.0	7*00	1.00	3.00	1.46	00.0	0. 33%	00.00	ONS	-0.15	-0.22	-0.28+	-0.15	-0.10	-0.26	+0°0-	-0.41++	0° 00	1.00	0 0	-0.48++	<b>つ</b> :	-0.42++
94 EX			•												EIY MEAN	OF VARIATION	(SN=******)	ELATI	KG/HA	FLOWER	first.	04		WEIGHT 1	WEIGHT 2	BEIGHT	LCDGING	<b>X</b>	HARVEST	PLANT	를 ( 일 : 로 :	OF SEED
TABLE	VARIETY OR CROSS		FORREST	BOSSIER	WILLIAMS	COLUMBUS	JUDITER	CALLAND	NE EEEE	HARDEE	TRACI	HAMPTON ZOOA	WOODWORTH			ы	VARIETY MEANS (***	CORR	KIELD	DAYS TO	DAYS TO	NCDULE	NODULE	NCDULE	NODULE	PLANT			PLANTS	POUS PER	13.1 SEED	OUALLT
	ENTRY	w s	<del>3</del> 00	W)	11	on ·	(	12	7) [	ין ני	- (	7	10	1	STANE		5% ISI															

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TABLE

COUNTRY - TANZANIA ELEVATION - 1700 M LONGITUDE - 33 DEG. 32 MIN DATE HARVESTED - MAY, 1976
SECION - AFRICA SITE - MBEYA LATITUDE - 8 DEG. 55 MIN. S COOPERATOR - A.E.M. TEMU DATE PLANTED - JANUARY 5, 1976 SOIL TYPE - SILT FERTILIZER USED (KG/HA) - P 20.0 AMOUNT OF MCISTURE - 772 MM SUBSTITUTE WASTETIES - BLACKHAWK, MONROE LOCAL VARIETY - H 1/1

ENTEY	VARIETY OR CROSS	XIELD KG/HA	DAYS TO FLOWER	DAYS TO	NOBULE NUMBER 1	NCDULE NUMBER 2	NODULE WEIGHT 1	NCDULE WEIGHT 2	PLANT	LODGING
2	HARDEE	2953.09	67.00	138.75	365,25	790.75	3.08	10.44	0.00	00 00
<b>=</b>	DOSSIER	2773.89	57.00	139.00	435.00	621.25	3.80	9.54	0.00	0.11
• 6	FORKEST TRIBOUGH DELICAN	7113.41	26.00	133.00	516.50	655.25	m = = = = = = = = = = = = = = = = = = =	7000	0.00	0.00
7 (		2508.42	00.40	133.33	354.53	943.75	# C C C	ο α ο σ	00.0	
Lu	DAVIS	2315.88	00.09	125.00	325,75	413.75	2.57	6.02	00.00	00.00
S	WILLIAMS	2245.45	42.00	118.00	584.75	563.50	3.52	6.77	0.00	0,00
13	MONROE	2153,76	62.00	138.75	870.75	1028.75	4.13	9.28	00.00	00.00
ထ	C/3	2047.91	54.00	134.00	662,75	858.25	5.10	11.26	00.00	00.00
-	HAMPTON 266A	1833.70	54.13	136,33	552,75	764.75	4°06	8.93	3.03	0.00
11	SHEES	1648.25	00.09	120.00	366.00	565.50	2.62	5.72	00.00	00.00
ę		1459.46	58.00	130.00	466.50	471.50	4.42	6.72	00.00	0.00
12	н 1/1	1454.87	62.33	133,25	678.75	1176.75	3.80	7.90	00.0	00.00
	GRAND MEAN	2210.3	57,38	131,83	516,37	7 09 , 94	9	8,31	00.00	00.00
STANDA	STANDARD ERROR OF A VARIETY MEAN	164.5	0.00	3,12	67,81	71.89	7	1.23	0.00	0.03
	COEFFICIENT OF VARIATION	14.89%	0.00%	0.18%	26.27%	20,25%	23.69%	28.97%	0.00%	0.00%
S% ISE V	% LSE VARIETY MEANS (*******=NS)	471.9	00.00		194.51	206.19	.2	***	00.00	00.00
	· C	ORFEL	ATION	ß	(+ - PRO	B=, 75	++ - FECB=	.01)		
	YIELD KG/HA	1.00	0.04			- 1	,			00.00
	LO	0.04	1.00				'			0.00
	MATURIT	0°30+	0.43++			0.39++		3.44++		00.0
	NUMBER	-0.10	-0.15							00.00
	NUMBER	-0.10	0.28+							00.00
	WEIGHT	-0.10	-0.27							00.0
	WEIGHT	0.17	0.10						00.00	00.00
	PLANT HEIGHT	0.00	3.30	0.00	0.00	0.00	0.00	0.00	1.00	00.00
	Lobelng	00.0	0.00						00.0	1.00
	SHATTE	0000	0.00						00.00	00.00
	HARVES	0.00	0.00						00.00	00.00
	PLAN	0.33	0.00						00.00	00.00
	WEIGH	0.03	-0.47++	-0.34+	0.02	-0-	0.02	-0-	00.00	0.00
	QUALITY OF SEED	-0.38++	-0.14	+0.0-	+67°0	+ 0.35+	+ 0.17	-0.02	00.00	00.00
					1 1 1 1 1 1 1 1 1 1					1 1 1 1 1 1 1 1

[]	QUALITY OF SEED		•	, (	2 03											2.5)	0.17	13.27%	0.47	ROB=.01)	-0-38++		10.0-	++65 0	35	0.17	-0.02	00.00	0.00	00.00	0.00	00.00	0.18	1.00
(CONTINUE	100 SEED WEIGHT	-	-		9	4.7	8.7	1.	2.5	_	9.5	1 (*)		) ·	9 .		- 0		0 7	++ - PR(	0 - 03	++20-0-	-0.34+	0.02	-0.35+	0.02	-0.16	00.00	0.00	00.00	0.00	00.00	1.30	0.18
EAR 1975	PODS PER PLANT	0	0	0	0,00	0	0	0	0	· .	0	0		•	) 	3.33	00.00		00	PROB=.05	00.00	0,00	00.00	3.13	00.00	00.00	00.00	00.00	0.00	00.00	0.00	1.00	0.00	00.00
629 Y	PLANTS HARVEST	0	0	0	3.33	0	0	0	0	<u> </u>	0	0	C	) (	>		00.00	0.00%	.00	+)			00.00		0	0	0.	0	0	0.	·	00 00	·	0
XPERIMENT	SHATTER	0	0	0	0.33	0	0	0	0	0	0	0	C	) <	>	0.00	0	0	0	S N O	0	0	0	)	0	0	0	0	0	0	0	00.0	0	0
च 26					N											GRAND MEAN	ΙX		*	ELATI			E	Z	Z	3	3	HEIGHT	LODGING	SHATIER	HARVEST	PLANT	WEIGHT	OF SEED
TABLE	VARIETY OR CROSS	HARDEE	BOSSIER	2	MPROVED PELICA	BLACKHAWK	DAVIS	WILLIAMS	MONROE	COLUMBUS	HAMPTON 266A	11	K	H 1/1			ERROR OF A VA	EFFICIENT OF	***) SN	CORR	YIELD	DAYS TO	DAYS TO	NODULE	NODULE	NODULE	NODULE	PLANT			PLANTS	PODS PER	100 SEED	QUALITY
1 1 2 3 1 1 5	ENTBY	14	ħ	7	(*)	10	u)	6	<del>-</del>	ω	_	11	9	12	ı		STANDARD		SA ISI															

1975	
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EXPERIMENT	
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REGION - AFRICA

SITE - UKIRIGURU

LATITUDE - 2 DEG. 42 MIN. S

COODERATION - 1159 M

LONGITUDE - 33 DEG. 1 MIN. E

COOPERATORS - C.S. MUHALET, A.M.K. MHOJA

DATE PLANTED - JANUARY 3, 1976

DATE HARVESTEE - APRIL, 1976

SOIL TYPE - SANDY LOAM

FERTILIZER USED (KG/HA) - N 25.0, P 25.3

AMOUNT OF MOLSTURE - 279 MM

TODGING		% OOCOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
PLANT	11.93 11.93 11.93 11.98 11.98 11.98 11.98 11.98 11.98 11.98 11.98 11.38 11.38	16.60% 3.35 3.35 3.35 0.47++ 0.89++ 0.89++ 0.23 1.00 0.33+ 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.0
NODULE WEIGHT 2	0.12 0.12 0.12 0.00 0.00 0.00 0.00 0.00	7* (
NODULE WEIGHT 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**************************************
NODULE NUMBER 2	26	* * * * * * * * * * * * * * * * * * *
NODULE NUMBER 1		88 88 88 88 88 88 88 88 88 88 88 88 88
DAYS TO ATURITY	121.00 76.00 75.00 81.00 78.50 78.50 76.00 76.50 76.50 76.50 76.50 81.00 81.00	0.73 1.79% 2.07 * 0.33++ 0.53++ 1.03 0.07 0.07 0.017 0.089++ 0.089++ 0.089++ 0.089++ 0.089++ 0.089++ 0.089++ 0.089++
DAYS TO FLOWER M	56.00 56	н огооооооо
YIELD KG/HA		78.54 ******* 0 R E L A 1.00 0.20 0.33++ 0.62++ 0.62++ 0.05++ 0.00 0.29+ 0.49++ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.29+ 0.20+ 0.29+ 0.29+ 0.49+ 0.51+ 0.51+ 0.65
ENTEY VARIETY NUMBER OR CROSS	JUPITER SEMMES IMPROVED PE HARDEE HAMPTON 266 COLUMBUS DAVIS BOSSIER WILLIAMS CALLAND TRACY WOODWORTH COBB FORREST CLARK 63	STANDARD ERROR OF A VARIETY MEAN  COEFFICIENT OF VARIATION  LSC VARIETY MEANS (*******=NS)  XIELD KG/HA DAYS TO MATURITY NODULE NUMBER 1 NODULE NUMBER 1 NODULE WEIGHT 2 PLANT LODGING SHATTER PLANT 130 SEED WEIGHT QUALITY OF SEED
M S	- mandor out adrest	rv.

	0 0 0 0 0 0																																		
JED)	QUALITY OF SEED	3,75		3,25	3.50	5.00	3.00	3,25	3.25	2.75	3,50	3.50	3.50	2.33	3.00	2.75	3.27	0.26	16.06%	0.75	- PROB=.01)	0.02	0, 15	0, 12	0.01	-1,39	-0.02	-0.13	90.0	00.00	0.23	0.18	-0.22	60.0-	1.33
(CCNTINUED	100 SEED WEIGHT	19, 75	13.00	13.00	10,75	13,75	14.25	13,25	12.75	15,25	13,75	13,50	14.75	16.53	10.25	13.75	13.88	0.58	14.10%	2.79	++ - PRO	0.51++	-0.05	0.53++	0.24	0.28+	0.11	0.10	++64.0	00.00	-0.03	-0.10	+++990	1.00	- 3, 39
AR 1975	PODS PER PLANT	14.73		6,95	8,80	6.20	7.17	8.00	8.)7	5.37	4.93	5,62	5,25	14.33	4.08	7.73	7.52	1.72	45.83%	4.92	PROB=.05	0.51++	3.22	++8h ° 0	0.48++	0.55++	0.45++	0.52++	0.51++	0.00	-0.11	-0.19	1.00	++1900	-0.22
628 YEAR	PLANIS I HARVEST	135, 25	143.50	161,75	125.00	129.00	160.25	94.50	133,75	129,25	127,50	79.25	95,75	23.00	120,25	29,25	108.28	16.71	30.87%	47.70	d - +)	++64*0	3, 16	-0.02	0.31+	0.19	0.26+	), 13	0.02	3, ))	0.15	1.30	-0.19	-0.10	0.18
EXPERIMENT 6.	SHATTER	1.50	3.00	2, 13	2.00	2.00	1.50	1.00	1.75	1.25	1.75	2.75	1.25	1,25	1.00	1.50	1.70	0.26	30,33%	0.74	S N O	0.29+	-0.09	-0.16	0.16	0.16	0.21	0.16	-0.12	0.00	1.00	0.15	-0.11		0.23
TABLE 96 EX	N S	r:		EL PELICAN		V 266A	15		~	13	0		TH			53	GRAND	N,		MEANS (******=NS)	CORRELATIO		DAYS TO FLOWER	DAYS TO MATURITY	NODULE NUMBER 1		WEIGHT	三	PLANT HEIGHT	LODGING		PLANTS HARVEST		35	QUALITY OF SEED
	VARIETY OR CROSS	JUPITER	SEMMES	IMPROVEL	HARDEE	HAMPTON 266A	COLUMBUS	DAVIS	BOSSIER	WILLIAMS	CALLAND	TRACY	WOODWORTH	COBB	FORREST	CLARK 63		STANDARD ERROR OF	COEFFICIENT	VARIETY ME															
	ENTEX	<del></del>	<u>u</u>	7	m	. 7	10	7	ę	13	14	s)	12	u)	6	11		STANI		ISI KS															

YEAR 1975
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TABLE

	LODGING 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000	
	HEIGHT 1 1 1 1 2 2 3 3 3 7 5 3 3 3 3	32.93 4.20 25.51% 12.00 0.23 0.42+ 0.27+ 0.00
. v	MEIGHT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- PROBE
. 10 MIN. E	MODULE MODULE 181.00 357.00 276.75 293.25 159.75 159.75 160.00 412.75 341.00 278.25 146.25 341.00 278.25 146.25 298.25 146.25 278.25 298.25	261.88 37.02 28.27% 105.81 105.81 -0.19 -0.19 -0.11 -0.11 -0.00 0.00 0.00 0.01 0.28+ 0.21 0.28+ 0.21
TOGO H - 160 H - 1 DEG	NUMBER 1 122.75 166.50 197.00 52.00 62.75 136.75 136.75 136.75 136.75 136.75 136.75 136.75 136.75 14.50 17.25 17.25 17.25 173.00 44.50	43.95 22.26% 64.80 64.80 64.80 0.00
COUNTRY ELEVATI LONGITU DATE HA	DAYS TO 110.25 90.50 90.50 90.50 92.25 88.25 92.25 86.75 86.75 82.50 90.25 81.00 81.00	87.62 1.60 1.60 1.00
20.0° K 2	PAYS TO FLOWER 31.75 24.00 24.00 24.75 30.25 24.75 30.25 21.00 21.00 21.00 21.00	24.08 6.54% 6.54% 2.25 2.25 7.25 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
. 21 MIN. N .A.T. TOGO AY 7, 1975 (KG/HA) - P RE - 489 MM	XIELD RG/HA 3667.40 3646.56 3208.97 2813.06 2771.39 2236.31 2396.31 2250.45 22271.24 2021.24 2021.24 1979.89	2504.67 19.00% 679.96 0.8 R E L 0.57++ 0.57++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
FRICA JTCHOU 7 DEG - I.R ED - M USED	 	GRAND MEAN OF VARIETY MEAN OF VARIATION (********NS)  (*********NS)  (*********NS)  (*********NS)  CELD KG/HA STO MATURITY OULE NUMBER 1 OULE NUMBER 2 OULE NUMBER 1 OULE WEIGHT 1 OULE WEIGHT 1 OULE WEIGHT 1 CODGING SHATTER ANTS HARVEST PER WEIGHT ITY OF SEED ANSE III ANSE III
REGION - ANO SITE - ANO LATITUDE - CODERATOR DATE PLANT SOIL PERTILIZER ANOUNT OF R	VARIETY OR CROSS JUDITER DAVIS HARDER FORREST INPROVED PELICAN COSB WILLIAMS WILLIAMS COLUMBUS COLUMBUS COLUMBUS COLUMBUS COLUMBUS COLUMBUS COLUMBUS COLUMBUS	STANDAED ERROR OF A VAR.  COEFFICIENT OF TABLES (****  YIELD DAYS TO DAYS PER TO SEED DISEASE DISEASE DISEASE DISEASE
	ENTRY NUMBER 1 3 4 5 5 6 6 6 6 6 6 6 7 13 13 14 10 11 11 12 13 14 16 17 18 18 18 18 18 18 18 18 18 18	STANDAED CO

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PERCENT OIL	24.6	22.8	25.5	24.1	22.9	23.8	25.9	26.2	24.6	23.1	22.5	23.5	22.9	25.1	24.7					1)	00.00	00.0	00.0	00.00	00.0	00.00	00.0	00.0	00.0	00.0	00.0	00.0	00.0	00.00	00.00	1.00	00.00
PERCENT	42.1	43.0	42.1	41.7	44.1	44.8	39.1	40.8	43.1	43.3	43.2	42.1	43.7	42.0	40.7					- PROB=.01)	-0.26+	-0.53++	-0.47++	-0.22	0.28+	0.00	00.00	-0.41++	00.0	0.00	0.01	-0.46++	90.0	0.42++	1.00	0.00	0.00
QUALITY OF SEED	2.00	2.50	1.75	2.00	1.75	1.25	2.25	3.25	2.50	2.00	3.75	3.25	2.25	2.25	3.00	2.38	0 27	23.07%	0.79	++ 50	-0.40++	-0.47++	-0.33++	-0.10	0.11	00.0	00.00	-0.22	00.00	00.00	-0.30+	-0.45++	++ 11 11 0	1.00	0.42++	0.00	0.00
100 SEED WEIGHT	24.00	22.75	23.25	18.75	22.75	19.00	22.00	23.75	24.00	21.00	26.75	22.25	22.50	21.50	18.75	22.20	0 60	6.25%	1.98	(+ - PROB=.05	0.16	-0.01	0.19	0.19	0.24	00.00	00.00	0.09	00.00	00.0	-0.24	0.12	1.00	++ 57 0	0.06	00.0	0.00
PODS PER 1 PLANT	32.28	22.78	26.45	22.38	22.88	24.68	21.28	19.75	19.25	17.53	19.13	17.10	17.98	19.20	15.95	21.24	1.69	15,95%	4.84		0.76++	0.71++	0.73++	0.37++	0.01	0.00	00.0	++9400	00.00	00.0	-0.05	1.00	0.12	-0.45++	++95.0-	0.00	
PLANTS P	168.25	207.75	180.75	196.25	175.25	221.25	184.50	179.75	202.00	190.75	193.00	172.00	195.25	173.00	180.75	188.03	10.18	10.83%	29.10	TIONS	0.04	0.	-0.02	0.18	0.18		00.00	0.13	00.00	00.00	1.00	-0.05	-0-24	-0.30+	0.01	0	00.0
SHATTER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	00.00	0.00%	00.00	RRELA	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	0.00	1.00	0.00	00.0	00.00	00.00	00.00	00.0	00.00
																ND MEAN			***=NS)	0	3/H	PLOWER	MATURITY	UMBER 1	UMBER 2	WEIGHT 1	EIGHT 2	HEIGHT	LODGING	SHATTER	HARVEST	PLANT		OF SEED	I	II	III
VARIETY OR CROSS	JUPITER	DAVIS	HARDEE	FORREST	BOSSIER	IMPROVED PELICAN	COBB	HAMPTON 266A	WILLIAMS	SERRES	CALLAND	TRACY	COLUMBUS	CLARK 63	WOODWORTH	GRAND	STANDARD ERROR OF A VARIETY				YIELD	T <sub>0</sub>						PLANT				PODS PER			DISEASE	DISEASE	DISEASE
ENTRY	-	7	÷1	6	9	*	2	2	3	15	14	8	10	11	12		STAND		5% LSD																		

**YEAR 1975** 

EXPERIMENT 394

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DATE HARVESTED - AUGUST, 1975

REGICN - AFRICA
SITE - DAVIE
LATITUDE - 6 DEG. 26 MIN. N
CCOPERATOR - I.R.A.T.-TOGC
DATE PLANTED - MAY 2, 1975
SOIL TYPE - CLAY
FERTILIZER USED (KG/HA) - P 40.0, K 30.0
AMOUNT CF MOISTURE - 482 MM

CCUNTRY - TOGO ELEVATION - 95 M LONGITUDE - 1 DEG. 13 MIN. E

7 DAVIS 3 HARDEE 9 FORREST 15 SEMMES 6 GOBB 1 JUPITER 2 HAMPTON 266 10 COLUMBUS 13 RILLIAMS 11 CLARK 63 14 INDODWORTH 12 WOODWORTH 12 COEFFICIENT	Ę-I		KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	NODULE WEIGHT 1	WEIGHT 2	HEIGHT	IODGING
3 HARDEE  9 FORRES  15 SEMMES  6 6 BOSSIE  1 JUPITE  2 HAMPTO  10 COLUBE  4 IN CLARK  4 IN CLARK  4 IN CLARK  11 CLARK  4 IN CALLAN  12 NOODWO  STANDARD ERROR  STANDARD ERROR  COEFFOR	T		3563.21	7.	9	211.50	3.2			V	1,00
9 FORRES 15 SEMMES 6 BOSSIE 5 COBB 1 JUPITE 2 HAMPTO 10 COLUBB 8 TRACY 13 WILLIA 11 CLARK 14 IMPROV 14 CALLAN 12 MOODWO 12 MOODWO 12 STANDARD ERROR	₽		3375.67	7	ထ	116.25	3.5			1 4	1.25
15 SEMMES 6 BOSSIE 5 COBB 1 JAMPTO 10 COLUMB 8 RILLIA 11 CLIAR 4 TMPROV 14 CALLAN 12 MOODWO 12 STANDARD ERROR COEFFI			2979.76	24.00	92.50	80.75	276.75	00.00	00.0	34. 68	1.00
6 BOSSIE 1 JUPITE 2 JUPITE 10 COLUND 8 TRACY 13 WILLIA 11 CLARK 4 CALRAK 14 CALRAN 12 MOODWO 12 STANDARD ERROR			2792.22	0	ď	110.25	0			-	1.25
5 COBB 1 JUPITE 2 HAMPERON 10 COLUMB 8 TILLIA 11 CLARK 4 IMPROV 14 CALLAN 12 MOODWO 12 STANDARD ERROR	22		2625.52	2	(7)	90.75	3.7			-	
1 JUPITE 2 HAMPTO 10 COUNTE 8 TRACY 13 HILLIA 11 CLARK 4 INFERO 14 CALLAN 12 HOODWO 12 STANDARD ERROR			2583.85	0	ဆ	63.75	3.5			- =	9
2 HAMPTO 10 COLUMB 13 TRACY 11 CLARK 4 IMPROV 14 CALLAN 12 MOODHO 5TANDARD ERROR	DC:		2583.85	7	7 .	85.00	2.2			-27	
10 COLUMB 8 TRACY 13 FILLIA 11 CLARK 4 TMPROV 14 CALLAN 12 RODBO STANDARD ERROR	N 266A		2333.80	0	ဏ	130.75	3.2			0	
13	us	٨	2271.29	5	° N	153,75	2 . 7	9		15)	
13 WILLIA 11 CLARK 4 IMPERO 14 CALLAN 12 HOODWO' STANDARD ERROR			2250.45	0	0	121.00	0.0			7	
11 CLARK 4 IMPROV 14 CALLAN 12 WOODWO) STANDARD ERROR COEFF I	M.S.		2229.61	0	°	177.75	3.0			4	
4 IMPROV. 14 CALLAN 12 WOODWO! STANDARD ERROR COEFFI	53		2000.40	7	, B 1000	98.75	0.4			S	
14 CALLAN 12 WOODWO) STANDARD ERROR COEFFI	ED PELICAN		1875.37	7		104.25	5.7			0	
12 WOODWO STANDARD ERROR COEFFI	0		1792.02	5	°	96.75	2.2			· C	
STANDARD ERROR COEFFI	3.18		1646.16	0	0	96.25	. 5		00.00	47.73	2.50
STANDARD ERROR COEFFI	GRAND	MEAN	60.2		92,12	115.83	0 0	9		46.01	
COEFFI	VARIETY	MEAN	199		1064	7	30	0	, ,		- 0
	T OF VARIA	NOIL	16.2	15.88%	3.56%	30.01%	31	%00°0	%00°0	8, 77%	26.061
5% LSD VARIETY MEANS	*******	S	2		4.68	9.68	159.57	0	00.0	5.77	0.65
				;	į	1					
		) )	KKELA	N O T	v3	(+ - PRO	B=.05	++ - FROB=.	.01)		
		S/HA	1.00	-0.08	-0.27+	0.17	-0-	0		-0.43++	-0-42
	DAYS TO FLO	OWER	-0.08	1.00	0.15	-0.11	0	0	. 4	0.45++	0.32
	-	MATURITY	-0.27+	0.15	1.00	-0.31+	0.04	00.00	00.00	10	90 0-
	PR-1	1 1 1 1 1	0.17	-0.11	-0.31+	1.00	0	0		-0° C3	-0.21
	(Minut	ER 2	00.0-	0.31+	70°0	0.33+	+ 1.	0		7	0.21
	(.36)	H	00.0	00.0	00.0	00.00		0	9	00.00	0.00
	p.me	11 2	00.00	00 0	00.00	00.00	0	0		00.00	00.00
	PLANT HE	IGHT	0.43	0 45++	60 0 0 -	-0.03	0	0	- 9	$\circ$	0.58
	COD	SING	-0.42++	0.32+	90.0-	-0.21	0	0	9	9	1.00
		LTER	-0.23	0	00.0-	0.23	1	0	- 8	0.14	0.07
		FST	0.10	-0-17	0.03	-0-12	• 0 -	0		3	-0.18
	400 CEER P	LANT	0.26+	++650	0.03	-0-11	<b>.</b>	0		0.16	0.02
		THE	~	-0.20	0.23	0.20	0	0		-0.18	00 00
		CEED	-0.70++	-0-17	0.34+4	-0.25+	-0-	0		., 0.16	0.20
		н	00.0	00.0	00.00	00.0	°	0	- 8	00.0	00.00
	DISEASE	II	00.0	00.0	00.00	00.00		0		00.00	00.00
	DISEASE	III	0.00	00.0	00 * 0	00.00		0		00 0	00.00

ENTRY	7	· (*)	o	15	2	9	2	-	- (	7	10	œ	200	2 *	-	<b>3</b>	14	12		CTANDAD	2141041	SE TEN UN	727																		
VARIETY OR CROSS	CATA		Echado		OFFICE	BOSSIER	CORR			HAMPTON 266A	COLUMBUS	2012		WILLIAMS		IMPROVED PELICAN	CALLAND	WOODWORTH		CRANDA DO BODOO OB A MADITUM MILE	CONTROL OF A VARIETY MEAN	COEFFICIENT OF VARIATION	NALETE BEANS (********NS)	U	YIELD KG/HA	TO						PLANT HEIGHT	LCDGING								DICEACE TIT
SHATTER	000		•	00.1	1.00	1.00			1.00	1.00	1 25	700	00.	1.00	1.00	1.00	1.00	1.25		1.03	60 0		***	CRREL	-0.2	0.0-	0 0 -	0.2	0 -0 -	0-0		0.1	0 0 .	1.0	-0.2	1	0.0-	0.1	0 0	0.0	
PLANTS	-	• [	- 1	υ,	0	C		7 .	S	7	٢	7 (	`.	2	5	7	5	175.75		185.28		9	***	ATION	0.10	-0.17	0.03	-0.12	-0.25	00.00	00.00	-0.30+	-0.18	-0.21	1.00	-0.12	-0.01	0.02	00.00	00.0	000
PODS PER	L	20.03	o o	Š	4	7	°	ô	3	~	) (	ů,	ů	5°		7	9			23.38	3,55	30°	10.	S	0.26+	++64.0	0.03	-0.11	0.32+	00.00	00.00	C. 16	0.02	0	-	1.00	-0.26+	-0.36++	00 0	00.00	٠.
100 SEED WEIGHT	i i	21.12	67.77	19.50	22,25	21 75	01017	71.12	26.50	26 25	0.4	74.50	23.75	75.50	21,75	17.00	23.25	21,50		22.65	0.45	3.97%	1.29	(+ - PROB						00.00	00.00	-0.18	00.00	-0.01	-0-01	-0-26+	1.00	0.03	00.00	0.00	>
QUALITY OF SEED		1.00	0	. 5	7		7 .	0	2		7 !	`	5	2.25	0	7	. 0	3.50	1	2.27	0.42	37.16%	1.20	=.05 ++	-0-70++	-0.17	0.34++		-0-15	00 0	00 0	0.16	0.20	0.12	0-02	-0-36++		1,00	00-0	00 0	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
PERCENT PROTEIN		44.3	45.6	44.3	45.9	10.0	48.1	42.6	45.9	- V	44.0	48.3	47.7	46.1	45.6	16.7		45.3	)					PROB=. (	00.00		00-00	00-0	00 0	0000	00-0	00.00	00.00	00-0							0000
PERCENT OIL		22.5	22.8	22.8	22.1	1.1.0	21.5	24.8	22 6	1 0	74.5	21.0	20.1	22.9	22.6	23.0	7 CC	24.3 74.0	1.00					01)																	
																									C		0 0	ی د			ه د		, ,	, ,	,	) ( ) (	000		,		0.0

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	LODGING 5.00 1.75 1.00 1.25 2.25 2.25 1.00 1.00 1.25 1.25 1.25 1.25 1.25	0.45+ 0.65 0.65 0.00 0.00 0.00 0.00 0.00 0.00
	PLANT HEIGHT L 39.50 30.50 30.50 30.00 42.75 44.50 33.25 22.50 37.00 34.50 29.50 36.75	33.47 2.36 14.09% 6.74 6.74 6.74 1.09% 0.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
	NODULE 2 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00	
S)	E HGHT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROBE
. 43 MIN. E	NUMBER 2 WUMBER 2 WUMBER 2 WUMBER 2512.25 00 W11.35 521.75 521.75 521.75 521.75 521.75 521.75 521.75 521.75 521.25	396.32 54.39 27.45% 155.46 0.647++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
TOGO - 340 M - 0 DEG	NUMBER 1 NUM	206.23 20.43 19.82% 58.40 (+ - PROB= 0.07 0.07 0.09 0.00 0.00 0.01 0.01 0.01 0.01 0.01
COUNTRY ELEVATION LONGITUDE DATE HARVI	ATURITY 102.00 89.00 93.00 92.00 92.00 92.00 92.00 90.00 90.00 83.00 77.00 77.00	S
20.0° K 20	PAYS TO PLOMER TO PLOMER TO PLOMER TO PLOMER TO PLOME TO	24.22 3.92% 1.36 1.36 1.36 1.00 0.13 0.01 0.00 0.00 0.00 0.00 0.00
16 MIN. N A.TTOGO LY 8, 1975 KG/HA) - P E - 814 MM	XIELD KG/HA 3292.32 2854.74 27553.01 2458.82 2396.31 2292.12 2292.12 2292.12 1792.02 1792.02 1792.02 1792.02	2129.59 202.04 18.97% 577.46 0.66++ 0.07 0.07 0.00 0.00 0.45++ 0.00 0.45+ 0.45+
REGION - AFRICA LATITUDE - 9 DEG. COOPERATOR - 1.8. DATE PLANTED - JU SOIL PH 6.0 FERTILIZER USED (		GRAND MEAN VARIETY MEAN OF VARATION (*******NS)  IELD KG/HA S TO PLOWER S TO MAUVRITY DULE NUMBER 1 DULE WEIGHT 2 DULE WEIGHT 2 LANT LODGING SHATTER ANTS HARVEST PER PLANT LODGING SRATTER ANTS HARVEST PER PLANT LITT OF SED LANT LEASE III
REGION - AFR SITE - KITAN LATITUDE - COPERATOR - COOPERATOR - DATE PLANTED SOIL PH 6.0 FERTILIZER U	VARIETY OR CROSS JUPITER DAVIS HARDEE FORREST BOSSIER IMPROVED PELICAN COBB CALLAND. CALLAND. COLUMBUS MILLIAMS TRACY TRACY CLARK 63	F OF A TELLEN T TELLE
	ENTRY NUMBER NUMBER 17 15 15 15 13 11 11	STANDAR S% LSD VA

																										c	00.0	00.00	0.00	00 00	0.00	00.00	00.0		0.00	0.00	00 0	00.00	00.00	00.00				00 00
PERCENT	23.5	21.7	22.6	22.8	21.1	21.0	6117	22.8	21 7	. 70	7 - 4 7	27.3	21.7	22 0	0 0	20.3	23.4	23.0							1)												0.00							
PERCENT PROTEIN	42.6	43.8	44.1	42.0	45.4		7 . 44	41.5	44.9	9 02		41.0	43.2	42 2	1 5	44./	42.4	42.1							- PROB=.0	0	177		0 0 V	01.0	Š			c	2 6	17.0	00000	38				0		
QUALITY OF SEED	1.50	1.75	2.00	1.25	1 25	1.20	00.1	1.50	2,25	7 70	- · ·	3.2×	2.50	2 70	0 10	3.17	3, 25	2.75		2.15	0.30	27.77%	0.85		++ 50°	0.5	0 68	0000	9 0	01.0	† ° O	0	0 "	0.1			0 0	0.1	₹.	2	0	0.66++	00	2 (
100 SEED WEIGHT	24.50	26.25	24.25	21.50	25.00		18.50	23,75	24.50	26 25	14.04	67.67	24.25	25.25		00.42	23.25	24.25	٠		7.	3.94%	m	)	(+ - PROB=		-0.40+			7.00	70.0	00.00	0.00	-0.23	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	00.00	$\sim$ $^{\circ}$	-0.19	1.00	0.22	0.22	0.00	
PODS PER PLANT	20.22	15,13	20.48	19,83	17.85	10 65	18.90	21,25	15,10	15.98	4 1 20	07 04	14.30	13,33	11 00	00000	12.05	19,30		9	ħ.	17.72%	. 2						0.03								0.00	21.0-	1.00	-	44	-0.34++	00.00	. <
PLANTS	212.50	-	°				° .			~	_					•	0		-	;	1.78	12.13%	3,		TIONS	++54.0	0.42++	0.23	0.01	0 18		0000	00.00	0.14	0.19	00.00	200	> 0	71.0-	-0.12	-0.18	-0.38++	00.00	000
SHATTER	1.00	$\supset$		0	0		0	$\supset$	0	0	-	. :	2	0	-	: 0	00.1	1.00		0	000	×00°0			ORRELA	0.	0	0				> 1	0	0	0	C		> <	2 (	0	0	0	0	0
																			e E	2 10 20 20 20 20 20 20 20 20 20 20 20 20 20	Ė	OI J	H		υ	KG/HA	FLOWER	MATURITY	NUMBER 1	NIIMBER 2	TOTOR 1	THOTHER I	MEIGHT Z	HEIGHT	LODGING	SHATTER	HARVEST	DI A Non	TURBLA	TRUTTER (	OF SEED	H	11	TIT
VARIETY OR CROSS	JUPITER		IARDEE	FORKEST	BOSSIER	IMPROVED PELICAN	1			HAMPTON 266A	CALLAND	COT UMBILC		WILLIAMS	TRACE	HT-HOMOOM	III VONCOUNT	CLARK 63					VARLETY MEANS (****			ELD	E	DAYS TO P	NODULE	NODULE	2 STINCON	E PERCON	TOTOL	PLANT			PT.ANTS	And SUUd	1000 COL	OS SEED	CONTRA	DISEASE	DISEASE	DISTASE
NUMBER	1	, (	٠ (		9	77	5	, L	_ (	7	14	10	10	2	00	12	1 4	_		STAND	9 1 1 1 1	£ 5	L'S D																					

EXPERIMENT 395 YEAR 1975 (CONTINUED)

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1	DGING	0000	.2	1.50 2.25 1.00 2.00	N. 10.	1.65 0.22 26.94% 0.64	0.05 0.35 0.35 0.35 0.20 0.20 0.30 1.00 0.00 0.00 0.37 0.37 0.00
	PLANT EIGHT LOD			27.30 43.15 37.35 46.00		43.46 1.63 7.50%	0.38++++++++++++++++++++++++++++++++++++
	NODULE IGHT 2 H	.63	.24 .29 .83	2 t t t 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	.03	3.73 0.23 12.37% 0.66	0.50 0.50 0.00
	NODULE IGHT 1 WE		1.19	0.92 1.15 1.71		1.25 0.12 18.92% 0.34	- PROBE.01)
OBER, 1975	NODULE MBER 2 WE	1000	·	515.50 551.50 430.75 653.25 639.25		670.13 58.78 17.54% 168.01	0.666++ 0.47++ 0.47++ 0.438++ 0.47+ 0.03 -0.03 -0.03 0.015 0.015 0.00
UPPER VOLT - 200 H - 4 DEG. 2 ESTED - OCT	NODULE UMBER 1 NU	025	-25.7	208.00 258.00 253.25 325.50 271.25	75.2	272.33 19.00 13.95% 54.30	(+ - PROB =
CCOUNTRY ELEVATION LONGITUDE DATE HARV 5%, PH 5.6	DAYS TO ATURITY N	5.50	0-150	94.00 84.75 88.50 86.75	900	90.95 0.69 1.52%	0.58884 0.044100044100000000000000000000000000
I. SIKORA OW, CLAT 1 36.0, K 60	DAYS TO FLOWER M			30.00 23.00 27.00 23.50		26.95 0.77 5.75% 2.21	0.25 + 1 0 N S
OULASSO DEG. 25 MIN. N B. BERNOCCHI, I JULY 23, 1975 D (KG/HA) - P 3 TURE - 496 MM	YIELD KG/HA	743.	507. 293. 244.	2107.92 2087.50 2085.83 1929.55	722.	2176.02 81.00 7.44% 231.50	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SA SA STATE						GRAND MEAN VARIETY MEAN OF VARIATION (******)	KG/HA PLOWER NUMBER 1 NUMBER 2 MEIGHT 2 MEIGHT 2 MEIGHT 2 LODGING SHATTER HARVEST WEIGHT OF SEED
REGION - AFF SITE - BOBO- LATITUDE - 1 CCOPERTORS DATE PLANTED SOIL TYPE - PERTILIZER U	₩ W		N ZODA R R	MS US PD PRLICAN			YIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT PLANTS OUALITY DISEASE DISEASE
	VARIETY OR CROS	HARDEE COBB DAVIS	HAMPION FORREST BOSSIER JUPITER	SEMMES WILLIAMS TRACY COLUMBUS TMPROVED	CALLAND CLARK 63 WOODWORTH	STANDAED ERROR OF A COEFFICTENS 5% LSD VARIETY MEANS	
	ENTRY	827	7 6 9 7	13 8 10 4	12 12	STAN 5% LSD	

TY PERCENT PERCENT ED PROTEIN OIL	27 5	41.7	40.9	40.0	39.1	43.1	39.6	41.4	40.6	43.2	43.0	43.3	41,8	41.3	50 37.1 24.6	80	3	12%	10	++ - PROB=,01)	3 -0.22	5 -0.28+ 0	3++ -0.16	0	0.03	3+ 0-05	-0.15	0.20	.+ -0.21	00.00	0.0 40.0- +	+ -0.15 0.0	0.10	0.06 0	0	
100 SEED QUALITY WEIGHT OF SEED				21.88 2.75											17.83 1.50	18.30 2.18	36	.93% 2	03	(+ - PROB=.05		0 ++	+	-0-10	0 000	0 111 0	0.30+	++			-0-	.0 ++	1.00 0.01	-	0.0	<
PODS PER PLANT	25.88	28.10	21,88	23.98	27.33	21,35	30.10	19.68	15.45	19.95	17,33			15.75		21.55	1.14	10.58%	3, 26	Ŋ	0.60++	0.70++	0.82++	0.26+	.0.52++	0.03	0.12	0.39++	0.27+	00.00	-0.28+	1.00	-0.45++	0.31+	-0-15	
PLANTS	191.25	194.00	193.75	196.00	190.50	193.00	184.00	189.25	193.00	194.25	195.00	5	=	191.25	_	192,18	3.10	3.23%	****	ATION			-0.19	0	9	0.05	. 0	. 2					0.10		9	
SHATTER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	00	%00°0	00.00	CRREL	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	1.00	00.00	00.00	0.00	000	00.00	00000
												Z				GRAND MEAN		VARIATION	(SN=#**##	U	KG/HA						WEIGHT 2		LODGING	SHATTER	-			0		
VARIETY OR CROSS	HARDEE	COBB		HAMPTON 266A	FORREST	BOSSIER	JUPITER	SEE	WILLIAMS	TRACY		IMPROVED PELICA	CALLAND	CLARK 63	WOODWORTH		VAR	TENTENT OF	*AALETI MEANS (**			DAYS TO	DAYS TO	NODRE	NODULE	NODULE	NODULE	PLANT			PLANTS	PODS PER	100 SEED	DICTAR	A CERT LA	DI SERSE
NUMBER	e	S	7	2	ס י	۰ ي	۰.	ر د	2 0	Σ ς	2 :	<b>;</b> t	<del>-</del> -	_ ;	7	600	STAN	100	-																	

YEAR 1975

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		PLANT HEIGHT LODGING	000	0.0	0.0	80 0.0	78 0.0	0.0	85 53 0-0	45 0.0	85 0.0	58 0.0		.21 0.0	10.	5.03 0.0		+ 0.31+ 0.00	0.08 0.0	0.0 40.0-	+ 0.53++ 0.0	39++ 0.0	+ 1.00 0.0	00 1.0	0.0	0.00 0.0	33++ 0.0	0.0	0.0
		NODULE WEIGHT 2	1.73	1.57	1.56	9 .	9.0	. C.		0	-	⇒ ⊂	9	പ	35.88%	0.7	.01)	0.47++		. 22						0			0.00
	1975	NODULE WEIGHT 1	0.05		0 9		0 0	0	8 1		9		0	-	235.49%	* * *	.+ - PROB=.	0-1	0.0	. 2	0.0	0	0.0	0,0	.0	0.	-0	0.	0.00
VOLTA M G. 20 MIN. W	EPT BMBER.	NODULE NUMBER 2	3. 7	193,75	3.0	1.7	5.2	2.7	7 0 2	0.4	7.0	0.2	0	70 77	31.10%	1.96	B=.05 +		. 19	. 2	0.0	9 00	.53+	0,0	0	0.		0.	00
- UPPER N - 405 E - 4 DE	VESTED - S H 5.5 O	NODULE NUMBER 1	7.6	51,25	7.0	0.5	2.5	4.2	3.7	2.5	5.7	9.5	7 . 7	4- 3	47.27%	* *	(+ - PROE	0.1	. 2	0	2,0	2.	0	0,0	2	0,	.3	0	00.00
COUNTRY ELEVATION LONGITUD	DATE HAR AY 9.3%, P 5.0, K 60.	DAYS TO	0 1	102.00	m c	9.6	m -	7	9 4	9	8	6	0		5,36%		S	0.43++	1.00	-0-21	0.19	00	0.08	00.00	-0.10	00.00	0.03	00.00	00.00
K F TON	18.0	DAYS TO FLOWER	60	21.00		0	9 3		οα	9 6	-0	0	•		12.80%	.81	ATION	0	0 0			0	0.78		8 8		9 9		00.00
• 6 MIN•	NE 21, 197 85.5%, SIL KG/HA) - N	YIELD KG/HA	479.6	2152.51	964°9 942°0	23,3	19.1	08.6	60°7	87.8	66.99	56.5	96.	9	153.40	45	ORREL	1.00	- 67	Ξ	0,39++	707	0.31+	00.0	0.46++	0.00	0.20	0	00.00
SITE - FARRO-BA	470 5	· · · · · · · · · · · · · · · · · · ·					PELICAN								VARIETY MEAN OF VARIATION	(SN=*******)	υ	YIELD KG/HA	TO MA	IL E		ULE WEIGHT 1		LODGING	NTS HARVEST		EED WEIGHT		ASE III
REG	DATE DATE SOIL FERTI	VARIETY OR CROSS	JUPITER	HAMPTON 266A	BOSSIER	COLUMBUS	IMPROVED PEL	HARDEE	SERES	WOODWORTH	WILLIAMS		CLARK 63		STANDARD ERROR OF A COEFFICIENT			YIELD	DAYS	NODULE	NODULE	NODULE	1d		PLANTS	PODS PER	100 SEED OUALITY	DISEAS	DISEASE
		ENTRY		7	18	0	ಚ ಚ	רייו ר	5.	12	13	00 (	Ξ		STAND	5% LSD													

1 JUPITER  1 JUPITER  2 HARPTON 266A 6 BOSSIEN 14 CALLAND 10 COLUBBUS 14 IMPROVED PELICAN 15 SEMMES 15 PORREST 17 WOODWORTH 13 WILLIAMS 18 TRACY 19 CLARK 63 11 GRAND MEAN 5% LSD VARIETY MEAN 5% LSD VARIETY MEAN 11 HEAUS 12 WOODULE NUMBER 1 13 NODULE WEIGHT 1 14 NODULE WUMBER 1 15 DAIS TO MATURITY 16 NODULE WEIGHT 2 17 NODULE WEIGHT 2 18 NODULE WEIGHT 3 18 NODULE	HATTER H	EN KIG		MOUTTIE	PERCENT	PERCENT
JUPITER DAVIS HAMPTON 266A BOSSIER CALLAND COLUMBUS IMPROVED PELICAN COBB HARDE SEMMES PORREST WOODWORTH WILLIAMS TRACY CLARK 63 CLARK 64 CLARK 63		L PR W I	WEIGHT	OF SEED	PROTEIN	
CICAN GRAND WEAN VARIETY WEAN (*******=NS)  FELD KG/HA S TO WATURITY OULE WUMBER 1 OULE WEIGHT 1 LODGING SHATTER RAFFER PER PLANT FROM SEED ITTY OF SEED		00.00	17 68	00 8	L .	
LICAN  GRAND MEAN  VARITT MEAN  OF VARIATION  (********=NS)  ELD KG/HA  S TO MATURITY  OULE NUMBER 1  OULE WUMBER 1  LODGING  SHATURITY  RATURITY  LODGING  SHATURITY  LODGING  L		00-0	17.85	2000	44.0	7 6
CICAN GRAND WEAN OF VARIATION (********=NS) (********=NS)  FELD KG/HA S TO MATURITY UULE NUMBER 1 JOULE NUMBER 2 JOULE NUMBER 2 JOULE NUMBER 2 ANT HEIGHT 1 LODGING SHATTER INTS HARVEST PER PLANT ITY OF SED	0.00 176.00	00.00	21.48	3,00	42.3	7 0
GRAND WEAN VARIETY WEAN OF VARIETY WEAN (*******=NS) (*******=NS) (********  C  FELD KG/HA  C  C  C  C  C  C  C  C  C  C  C  C  C		00.00	18,30	3,25	42.0	77.0
GEAND MEAN VARIETY MEAN (************************************		00.00	19.73	2 0 0	0.74	.1 (
GRAND MEAN  GRAND MEAN  VARIETY MEAN  (********=NS)  ELD KG/HA  S TO MATURITY  DULE WUMBER 1  ELD FLOWER  S TO MATURITY  ENT PROFINE  REGHT 1  LODGING  SHATER  PER PLANT  LUNGING  SHATER  PER PLANT  LUNG  SHATER  PER PLANT  LUNGING  PER PLANT  LUTT  PER PLANT  LUTT  PER PLANT  LUTT  PER PLANT  PER PER PLANT  PER PER PLANT  PER		00.00	17.90	1 75	77.7	17
GRAND MEAN  VARIETY MEAN  OF VARIATION  (********=NS)  FELD  RG/HA  TO MATURITY  UULE NUMBER 1  JOULE NUMBER 1  JOULE NUMBER 2  JOULE NUMBER 2  LANT HEIGHT 1  LODGING  SHATTER  MATS HARVEST  PER PLANT  ITTY OF SED		00-0	14.30	1 50	40.0	77
GRAND MEAN VARIETY MEAN OF VARIETY MEAN (*******=NS) (*******=NS) (********  C C C C C C C C C C C C C C		0.00	20.30	20° 6	40.0	77
GRAND MEAN VARIETY MEAN OF VARIATION (**********  C TELD KG/HA S TO MINBER 1 DULE NUMBER 1 DULE WINBER 1 DULE WINB			00.00	0.4.0	40.0	57
GRAND MEAN (**************  OF VARIATION (************  ELD RG/HA S TO MATURITY DULE NUMBER 1 DULE WUMBER 1 LUFT 0 WEIGHT LUFT OF SEED TANT		0000	00.00	7.00	44.5	24
GRAND WEAN VARIETY MEAN OF VARIATION (*******=NS)  TELD KG/HA S TO MATURITY UULE NUMBER 1 JOULE WUMBER 2 JOULE WUMBER 2 LANT HEIGHT 1 LODGING SHATTER NATS HARVEST PER PLANT LITY OF SED			19. 13	3.50	45.8	21
GRAND MEAN OF VARIETY MEAN OF VARIETION (*********  C  ELD KG/HA S TO MILE NUMBER 1  DULE NUMBER 1  DULE WEIGHT LODGING SHAT LODGING SHAT REIGHT LODGING SHAT PER		00 00	14.48	2.00	43.4	21
GRAND MEAN VARIETY MEAN OF VARIATION (***********  EELD KG/HA S TO MATURITY DULE NUMBER 1 DULE WUMBER 1 DULE WUMBER 1 DULE WUMBER 1 DULE WUMBER 1 EELD REGHT 1 LODGING SHATTER MATS HARVEST PER PLANT ITTY OF SEED		00.00	17.60	2.50	41.0	23
GRAND WEAN  VARIETY MEAN  OF VARIATION  (********=NS)  (********=NS)  (*********  C  FELD  KG/HA  S TO MATURITY  DULE NUMBER 1  DULE NUMBER 2  DULE WUMBER 2  DULE WUMBER 2  S TO MATURITY  LOGING  SATTER  PLANT  LODGING  SHATTER  RICHT  LODGING  SHATTER  RICHT  LODGING  SHATTER  PLANT  TITY  OF SEED		00.00	20.45	2.50	42 >	24
GRAND MEAN OF VARIATION OF VARIATION (*******=NS) (*******=NS)  ELLD KG/HA S TO PLOWER 1 UULE NUMBER		00.00	17.55	05.	10.01	1 -
GRAND MEAN VARIETY MEAN OF VARIATION (*******=NS)  S TO FLOWER S TO MATURITY DULE NUMBER 1 DULE MEIGHT 1 OULE WEIGHT 1 LODGING SHATTER NATS HARVEST PER PLANT ITTY OF SED	0.00 131.00	00 00	17.50	3.00	41.9	24.8
VARIETY MEAN OF VARIATION (***********S)  (***********S)  (**********	. 00 .		18.04	2.55		
(********"S)  (*******"S)  (*******"S)  (*******"S)  (*******"S)  (********"S)  (********"S)  (********"S)  (********"S)  (********"S)  (********"S)  (*********"S)  (*********"S)  (*********"S)  (***********************************	00.		0 0	200		
(*********CC  IIELD KG/HA IS TO PLOWER  STO MATURITY  DULE NUMBER 1  DULE WEIGHT 1  DULE WEIGHT 2  PLANT REIGHT  LODGING  SANTS HARVEST  SEED WEIGHT  ANTY OF SEED  ILTY OF SEED	0.00% 9.10%	00.00	10.17%	18,72%		
KG/HA PLOMER NUMBER 1 NUMBER 2 WEIGHT 1 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 4 WEIGHT 4 PROFING SHATURER PLANT PLANT WEIGHT 6 FLANT	00.		2.62	0.68		
	RRELATION	S	(+ - PROB=	* 0 2 + +	PROB=.	01)
	0		0.20	0.10	0.00	0
	00	00.00	-0,3.1+	-0.12	00.00	
	0- 00	00.00	0.03	0.48++	00.00	0
	0 00	00.00	0.11	-0-30+	00.00	
	0 00	00.00	-0.14	-0.17	00.0	
	0- 00	00.00	0.11	0.05	00.0	
	0 00	00.00	-0-13	-0.22		
	0- 00	00.00	-0.31+	-0.33++		
	0 00	00.00	00.00	00.0		° د
	0 00	00-0	00.0			• 0
	00	0000	2000	000	00.00	000
	000	000	000	000	00.0	°
	00 00	00.00		00.00	00.00	°
	00		1.000	4 00 00	00.00	0
		00.0	0.30+	00.1	0.00	0
DISEASE	00		000	00.0	00.1	00.00
_				00.0	0.00	-

YEAR 1975

EXPERIMENT 454

	PLANT HEIGHT	35. 29 32. 23 32. 23 21. 15 35. 55 25. 33 16. 70 19. 70 10 10 10 10 10 10 10 10 10 10 10 10 10	31.92 2.22 13.93% 6.35	-0.42++
	NODULE WEIGHT 2		0.00	
7.5	NODULE WEIGHT 1	000000000000000000000000000000000000000	0.00 0.00 0.00% 0.00% 	000000000000000000000000000000000000000
VOLTA  M G. 9 MIN. W OCTOBER, 19	NODULE NUMBER 2	000000000000000000000000000000000000000	0.00 0.00 0.00% 0.00% B=.05	
UPPER - 300 - 2 DE	NUMBER 1	000000000000000000000000000000000000000	0.00 0.00% 0.00% 0.00 (+ - PROF	
COUNTRY - ELEVATION LONGITUDE DATE HARVE G.38=ILINI	DAYS TO	76.00 76.00 76.00 76.00 76.00 76.00 76.00 76.00 76.00 83.00	76.67 0.00 0.00% 0.00%	00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00
43 YE N 5 8.0	DAYS TO FLOWER	44 t t t t t t t t t t t t t t t t t t	33.73 0.27 1.63% 0.78 A T I O N	+ + + + + + + + + + + + + + + + + + +
XPERIMENT 4  3. 12 MIN.  DJIGYA  ILY 17, 197  (KG/HA) - P  (KG/HA) - P  RE - 500 MM  - BLACK MOT	YIELD KG/HA	1229.41 1158.56 1141.89 1137.73 1050.21 9715.03 946.02 941.85 985.67 658.46 525.10	935.19 83.24 17.80% 237.91	-0.68 -0.60 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00
TABLE 102 E: REGION - AFRICA SITE - SARIA LATITUDE - 16 DEC COOPERATOR - A. 1 DATE PLANTED - JI PERTILIZER USED AMOUNT OF MOISTUIL		AVA	GRAND MEAN IRIETY MEAN F VARIATION *******C	RG/HA PLOWER NUMBER 1 NUMBER 1 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 4 WEIGHT 7 WEIGHT 7 WEIGHT 7 WEIGHT 1 MEIGHT 1 MEIGHT 2 MEIGHT 1
TABLE REGION SITE COOPER DATE PI RERTIL	VARIETY OR CROSS	COLIMBUS WOODWORTH BOSSIER WILLIAMS COBB FORREST SEMMES CLARK G3 TRACY HAMPTON 266A DAVIS CALLAND G.38=ILINI JUPITER BLACK MOTTLED JA	RD ERROR OF A VA COEFFICIENT OI ARIETY MEANS (**	YIBLD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE PLANT POS PER 100 SEED QUALITS DISEASE DISEASE
	ENTRY	070 ER 0 2 E 0 0 7 7 7 7 E E	STANDA 5% LSD V	

		a	000000000000000000000000000000000000000
	PERCENT	21.2 24.1 25.7 20.6 20.6 20.0 20.0 20.0 20.0 20.0 20.0	000000000000000000000000000000000000000
	PLECIENT	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	# 000000000000000000000000000000000000
(ED)	QUALITY OF SEED		20.00 00
(CONTINUED)	100 SEED WEIGHT	15,30 17,35 113,90 113,90 113,90 114,30 14,70 14,05 17,50 6,90 8,70	13.50 11.84% 2.29 (+ - PROB= -0.57++ -0.00 0.00
R 197	PODS PER PLANT		% 0000 0000000000000000000000000000000
443 YEA	PLANTS P HARVEST	123.50 125.25 124.50 122.00 122.00 124.50 124.50 127.25 126.00 126.25 114.25 126.00 93.25	119.95 3.57 3.57 10.21 10.00 0.00 0.00 0.00 0.00 0.00 0.
XPERIMENT 4	SHATTER	000000000000000000000000000000000000000	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
102 E	• 1 1	Δ Α	RAND MEAN YARIATION ****=NS)  ****=NS)  ****=NS)  ****=NS)  *****  *****  *****  *****  *****  ****
TABLE 1	VARIETY OR CROSS	COLUMBUS WOODWORTH BOSSIER WILLIANS CORB FORREST SEMMES CLARK 63 TRACY HAMPTON 266A DAVIS CALLAND G.38=ILINI JUPITER BLACK MOTTLED JA	GRANDARD ERROR OF A VARI COEFFICIENT OF V ISD VARIETY MEANS (****  VIELD DAYS TO NODULE NODUL
	ENTRY	656 En en til 8 9 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	STAND:
	1		- 183 -

## TABLE 103 EXPERIMENT 638 YEAR 1975

SITE - MAGOYE

LATITUDE - 16 DEG. 8 MIN. S

LONGITUDE - 27 DEG. 38 MIN. E

COOPERATORS - A.L. CHAMPANER, A.J. PRIOR

DATE PLANTED - DECEMBER 9, 1975

SOIL TYPE - SAND 83%, SILI 6%, CLAY 11%, PH 5.3

AMOUNT OF MOISTURE - 742 MM

LCCAL VARIETY - GEDULD

TOLGING	00000000000000000000000000000000000000	30.03 30.14% 30.053 30.633 30.633 30.633 40.000 10.000
PLANT HEIGHT L	72.02 1212.28 69.15 58.33 39.28 37.95 57.95 37.28 57.95 14.00	11.79 1.00
NCDULE EIGHT 2	8.00.00.00.00.00.00.00.00.00.00.00.00.00	5.62 21.37% 1.72 1.72 0.23 0.23 0.23 1.00 1.00 0.28 0.28 0.28 0.00 0.00 0.00 0.01
NODULE ELGHT 1 W	3.08 2.08 2.03 2.03 2.03 2.03 2.03 3.03 0.08 0.08 0.08 0.08 0.08	28.78% 0.86 0.66 0.62 0.63 0.63 0.63 0.63 0.63 0.63 0.63 0.63
NCDULE NUMBER 2 W	898.75 506.50 506.50 545.53 843.25 671.50 478.25 472.25 267.00 350.50 315.50	513.73 74.32 28.93% 212.11 0.57++ 0.61++ 0.61++ 0.79++
NODULE UMBER 1	349.50 383.10 184.50 145.75 255.00 255.50 197.50 147.25 145.25 213.75 149.50	213.83 38.13 35.67% 108.83 1.60 1.52 1.60 1.60 1.61 1.60 1.61 1.60 1.61 1.60 1.61 1.60 1.61 1.60 1.61 1.60 1.61 1.60 1.61 1.60 1.61 1.61
DAYS TO ATURITY N	115.00 134.01 84.00 84.00 98.00 84.00 81.11 81.00 81.00 81.00 81.00	0.00% 0.00% 0.00% 0.00% 1.97+ 1.00% 0.52+ 0.52+ 0.52+ 0.52+ 0.52+ 0.53+ 0.54+
DAYS TO FLOWER M	56.00 77.00 85.00 49.00 49.00 81	1 I O N S S S S S S S S S S S S S S S S S S
YIELD KG/HA	4261,27 4233,84 3850,77 3823,68 3711,16 3311,16 3318,57 3244,40 3193,23 3015,19 2548,43 22440,07 1294,01	3156.88 183.54 11.63% 523.83 83 1.00 0.47 0.50 0.60 0.43 0.60 0.60 0.60 0.60 0.60 0.60 0.60 0.6
VARIETY F OR CROSS	HARDEE JUEITER COLUMBUS FCRREST GEDULD HAMPTON 266A IMPROVED PELICAN DAVIS CAILANE BOSSIER WILLIAMS TRACY ROODWORTH COBB	DARD EEROR OF A VARIETY MEAN COEFFICIENT CF VARIATION VARIETY MEANS (*******=NS)  YIELD KG/HA DAYS TO MATURITY NODULE NUMBER 1 NCDULE WIGHT 1 NCDULE WIGHT 1 NODULE WIGHT 2 FLANT LOGING SHATTER POCS PER PLANT 100 SLED WEIGHT 100 SLED WEIGHT
ENTER	8-1000000000000000000000000000000000000	STS I S I S I S I S I S I S I S I S I S

1975	
YFAR	
638	
EXPERIMENT	
103	
TABLE	

	OF CROSS	SHATTER	HARVEST	PUDS FER	WEIGHT	QUALITY OF SEED	PERCENT	PERCENT
(7)	H N N N	100	165 75	1.1	000		n 4	0
-	damidir.		17 1 1 1 1	0 0	00.77	0/*	7	20.00
	COLLIEN	000	00 *1 /1	30,43	71.50	00°L	41.5	77.0
2	COTOMBOS	1.00	192.50	23,53	22.00	1.00	47.2	21.3
Un.	FORREST	1.00	195, 25	33,10	20.00	2.50	43.8	20.6
<u>ر ہ</u>	GELUID	1.33	172.75	32,58	22.75	2,75	40.9	24.4
7	HAMPTON 266A	1.00	192, 25	27.78	24.50	3,50	43.7	22.8
7	IMPROVED PELICAN	1.00	191,50	22.73	20 50			1
-	DAVIS	1,00	190.75	37 65	200	7 =	127	21 1
10	CATTANT		000			00.4	10.0	7.77
	Cathand	00.	N1 .	19.40	57.57	1.25	44.6	50.6
إنا	BOSSIER	1, 30	-	25.03	22.75	3.25	46.4	21.5
(°)	WILLIAMS	1.00	Die.	20.68	23.75	2.00	45.3	22.8
ယ	TRACY	1.00	178.00	18,65	23.30	1.25	47.3	19.1
12	WCODWORTH	1.00	100	27.23	20.25	1.50	43 3	21 2
m s	COEB	1.00	112,25	39.75	22.00	2 75	71.7	21.0
-1	CIARK 63	1, 10	24.53	66 73	30.77	) U	41.7	2 T C C
			000	0000	67.67	C7 * 7	45.0	7.77
	GRAND MEAN	1,00	164,63	31.90	22.27	2.32		
STAND	STANDARD ERROR OF A VARIETY MEAN	00.00		form	0.41	0.25		
		2000	20 X		2 72 %	24 60%		
F. TCT	4			† † ) (	27.0	× 60° 17		
4		00.00			2 .	0.72		
	CORRELATI	O N S	- +)	PROB=.05	- ++	ROB=.01)		
		00 00	0.71++		0.10	-0.13		
		0,00	0, 16	0.3	-0,10	-0.13		
	YS TO	00.00	0.01	7717	1			
	CLULE	0.00	0.21	-0.01	,			
			17.0	- u		07.0		
			0 254+		7000			
					0 :	0.00		
	NOT THE PROPERTY OF THE PROPER	,	000	70.0	3.04	-0.14		
		000	7 000	t - 0	00.0	+87.0-		
	SUTSCOT	00.0	70.07	0.14	-0.13	-0.34++		
	!	1.00	00.00	00.00	00.00	00.0		
	ANTS	00.00	1.00	-0°16++		Ī		
	E.	0.00	-3.76++		-3,31+	0.17		
	SEED	00.00	0.37++			0 37++		
					2			

YEAR 1975	
EXPERIMENT 639	
TABLE 104	

PEGION - AFFICA

SITE - MUFULINA

LATITUDA - 12 DEG. 37 AIN. S

COOPERATORS - A.J. PLIOS, A.A.V. SARMEZY

COOPERATORS - DECEMBER 29, 1975

DATE HARIED - DECEMBER 29, 1975

SOLI TYPE - SANDY LOAM

FIRTILIZEE USED - P 31.2

AFOUNT OF MOISTURE - 1095 MM

LOCAL VARIETY - SEDULE

DNISTOR	0.0000000000000000000000000000000000000	1.07 26.19% 0.14 0.17 0.25 0.25 0.25 0.25 1.03 -0.40 -0.14 -0.14 -0.14 -0.14 -0.14 -0.14 -0.14 -0.14 -0.14 -0.27 -0.108
PIANT	4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	#3.57 7.16 3.2.89% ***** 0.34 0.17 0.17 0.17 0.15 1.00 -0.07 0.007 0.007
NCDUII	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	29.715 29.715 1.40 ** 0.43++ 0.77++ 0.68++ 0.58++ 0.58++ 0.68++ 0.68++ 0.76+
NODULE FIGHT 1 W	22.03 27.03	1.37 0.24 35.67 0.70 1.55 1.55 1.05 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03
NCDULE UMBER 2 W	243.25 343.00 271.00 271.00 271.00 281.00 281.75 180.75 180.75 236.75 236.75 231.75 186.75	266.39 42.40 31.83 121.29 0.37 0.37 0.38 0.59 0.76
NODULE UMBER 1 N	135.75 255.25 117.25 226.25 226.25 226.25 108.50 333.25 14.75 914.75 1183.75	177.63 27.65 31.15x 75.13 (+ - PROB= 0.25 0.14+ 0.12 0.12 0.69+ 0.78+ 0.78+ 0.05 0.05
DAYS TO ATUPITY E	144,50 133,25 115,00 105,75 117,00 117,25 134,50 117,25 11	122.66 2.67 4.36% 7.64 1.00 1.00 0.412 0.012 0.012 0.025 0.026
LAYS TC FLOAER Y	4 4 9	11.11 0.61% 0.38 0.38 1.00 1.00 1.00 0.34 0.564
YIELD KG/HA	2725.71 2538.83 2245.32 2345.32 2340.43 2313.76 233.76 237.91 1994.23 1697.33 1637.86 1637.86	2)33,76 211.87 20.87% (06.36 0.87% 0.25 0.354+ 0.25 0.354+ 0.25 0.434+ 0.25 0.434+ 0.344+ 0.17 0.17
		MEAN MITON MITON MITON MITON COWER COWER COWER JELTY JELTY SIGHT SIGHT ATTER A
VARIETY OF CPOSS	DAVIS HARDEE FCREST CCIUMBUS JUEITER HARDTON 266A IMPROVED PELICAN GEDULD CALLAND BOSSIER COEB WILLIAMS	GRAND COEPTICIENT OF WARETY COEPTICIENT OF WARETY ALIETY MIANS (******* DAYS TO FI DAYS TO MATH WODDLE NUM SCOULE WEITH NODDLE WEITH PLANT HIS PLANT HIS PLANT HIS PODS PUTS HA 100 SFED WIT
ENTEY V	7220 01 1220 1220 1220 1220 1230 1230 123	STANDARD C

	PERCENT	20.5	19.0	20.8	19.8	18,4	21.5	1	22.0	19.9	19.1	22,4	18.0	22.1	20.4																				
	PERCENT PROTEIN	45.4	46.8	44.0	46.7	47.1	46.6	!	44.7	46.9	48.2	45.2	47.4	45.6	45.3																				
JED)	QUALITY OF SPED	2.00	1.00	1.50	1.25	2,53	2.50	2.00	3.25	3.75	1.75	2.00	1.50	1.75	1.25		2.0)	0.26	25.94%	0.74	B=.01)	10.04	1.16	0.22	0 0 07	0 07	0.21	0.16	0.05	3.36	0.07	0.15	-0.15	0.48++	1,00
(CCNTINUED	100 SEED WEIGHT	21.55	16.70	16.43	20.48	18.63	21.93	18,85	21.38	23.48	20.4)	19.50	19,23	20.25	18.65		19.82	1.07	1).80%	3.06	++ - PROB=	-0.02	-7.17	0.09	0.15	-0.13	0.15	-0.10	-0.15	- 3, 11	0.15	0.21	-0.18	1.00	0.48++
AR 1975	PODS PER	12,55	15,98	9.15	12,45	13.))	11,85	10.55	8.17	9.10	9.5)	15,10	10.25	10,33	10.88		11,35	0	26.42%	$\sim$	PRUB=.05	0.17	0.23	0,26	), 15	0.13	0.05	0.16	-0.16	0.34++	0.18	-0.26	1.00	-0.18	-0.15
± X 5€	PLANTS HARVEST	260.00	199.25	232.50	N	193, 25	235,50	240.75	252,00	206.00	2)2,25	130.50	0	230,50	2		21), 30	14,36	13.67%	41.07	+)	0.46++	3,34	-0.01	).22	0.08	0.28+	0.16	0.30+	- ), 16	-0.34+	1.00	-0.26	0.21	0.15
XPERIMENT 6	SHATTER	1.75	1.50	1.00	1.00	2.00	1.75	1.00	1.5)	1.00	2.50	4.00	1.00	1.00	1.00	1	1.57	0.24	30.93%	0.70	SNO	-0.06	0.29+	0.71++	-3,35	0,11	0.12	0.11	0.07	-0.38	1.00	-0°34+	0.18	0.15	0.07
104								AN								2	GRAND MEAN	KILIX	VABIATI	*******	RELATI	K G/H	O FLOWER	MATURIT	E NUMBER 1	NUMBER		1 N		LODGING					0
TABLE	VARIETY OF CROSS	DAVIS	HARDEE	FORREST	COLUMBUS	PITER	266A	IMPROVED PELICA	GEDULD	CALLAND	BOSSIER	CCEB	TRACY	-	WOODWORTH			ARD ERROR OF A VA	COEFFICIENT CF	* *	M U U	YIEL	DAYS T	DAYS TO	NODUL	NODUL	NCDOTE	NCDULE	PL AN'			PIANT	POLS PER	100 SEE	QUALIT
1 2 3 1 5 5 7 8 8	144 144	7	(1)		1 0	-	7	27	14	(F) \	¥	LC?		12			í.	ZIBNL.	6	IST KG															

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	PIANT PERGHT 52.50 36.25 36.25 34.25 43.75 47.50 27.00 27.00 38.75 37.00 31.00 34.25 34.25	36.28 1.56 8.59% 4.45	0.37++ 0.52+ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
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TR 1975 COUNTEX LCNGITUD	DAYS TO 131.00 111.0	34 73%	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
VE	PAYS FICON #55 00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00 #45.00	000 % 000 %	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
XPERIMENT 3 G. N AKBEH	YILLD KG/HA 1344.85 1060.84 921.64 922.48 916.73 8967.97 867.97 819.41 819.41 819.41 819.41 819.41 819.41 819.41	50000 H 60000 H	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SSIA AT A DE - A B DE - A B DE -	2	RANC PARIATIVE P	KG/HA FLOWER HATURITY NUMBER 2 WEIGHT 1 WEIGHT 1 LCDGING SHATTER HARVEST PLANT PLANT REIGHT COGING SHATTER HARVEST PLANT REIGHT WEIGHT COGING
TAELE 105 FEGION - A SITE - UEB LATITUDE - CCOPERATOR	VARIETY OF CROSS FCRREST WILLIAMS CLARK 63 CLARK	GE COEPFICIENT CF VARD VARIETY MEANS (****	ALLED DAYS TO DAYS TO DAYS TO NCDULE NCDULE NCDULE NCDULE PLANT PLANTS PODS PER 100 SEED QUALITY
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A P R G A A R C A A R C A A R C A A R C A A R C A A R C A A R C A A A A	TIELD KG/HA DAYS TO FLOWER DAYS TO MATURITY NCDULE NUMBER TY NCDULE NUMBER TY NCDULE WEIGHT TY NCDILE WEIGHT TY DOGN'S SHATTER TYPE WEIGHT TYPE WEIGHT DOALITY OF SKED

TABLE 106 EXPLRIMENT 402 YEAR 1975

LOIGING	000000000000000000000000000000000000000	1, 12 0, 25 4,4,4,9,99% *********************************	0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PLANT	76.25 83.75 66.75 61.00 71.25 72.25 76.00 66.25 76.00 64.75 72.25	67.00 1.66 4.95% 4.73	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
NCDULE WEIGHT 2	000000000000000000000000000000000000000	0.00 0.00 0.00% 0.00%	000000000000000000000000000000000000000
NODULE WEIGHT 1	000000000000000000000000000000000000000	0.00 0.00 0.00% 0.00% + - PROB=	000000000000000000000000000000000000000
NCCLLE NUMBER 2	4.25 5.35 6.25 6.25 7.03 1.00 11.00 8.75 6.25 4.00 1.25 1.25 1.25	66	-0.05 -0.00
NODULE NUMBER 1	2.25 1.75 1.50 1.25 10.50 1.50 9.50 9.75 9.75 9.75 9.75	3.57 1.79 100.34% 5.11 (+ - PROE	00.00 00
DAYS TC MATURITY		4 4 4 4	
EAYS IC FLOWLE		0.00 0.00 0.00% 1 I O N	000000000000000000000000000000000000000
YIELD KG/HA	01.4 43.8 80.8 80.8 60.8 00.8 000.8 000.8 000.8 000.8 000.8 000.8 000.8 000.8 000.8 000.8	E 4343	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
		GRAND MEAN GRAND WEAN OF VARIATION (********C C	FICHA FICHER MATURITY NUMBER 1 NUMBER 2 NUMBER 2 NEIGHI 1 NEIGHT 2 EDIGHT 2 EDIGHT 2 REIGHT 2 PEANT RECHT CODGING SHATTER HARVEST PIANT REIGHT CF SEED
VARIETY B OR CROSS	CALLANE HARDEE BASSIER TRACY SEMES FCREST WILLIAMS CIUMBUS WOODWORTH DAVIS JUPITER HAMPTON 266A CCBB	LAFD FEROR OF A COEFFICIENT VARIETY MEANS	A LELD DAYS TC DAYS TC DAYS TC DAYS TC NCDULE NCDULE NCDULE NCDULE PCDULE PLANT 100 SEE OUALITY
FNTEY	2 m 9 m 8 m 1 1 0 M 2 1 1 M 2 2	STAR	

QUALITY OF SEED	000000000000000000000000000000000000000	Z.02 0.10 0.29 PROB=.01) ++ 0.13 ++ 0.03 -0.15 -0.15 -0.16 ++ 0.07 +- 0.07 +- 0.07 +- 0.07 +- 0.07 +- 0.07 +- 0.07 +- 0.07
100 SEED WEIGHT	21.00 12.93 13.00 14.25 18.00 11.90 15.00 17.00 13.00	15.03 0.18 2.34% 0.50 0.00 0.00 0.25 -0.17 0.25 -0.27 -0.27 -0.24 0.27 -0.27 -0.27 -0.27
PODS PER PLANT	31.50 42.50 44.55 21.25 71.00 35.50 69.25 48.75 54.75 54.75	51.58 3.69 14.29% 10.52 -0.29+ 0.00 0.00 0.00 0.00 0.05 0.19 -0.31+ -0.31+ -0.59+ 1.00
PLANTS	80.00 107.00 74.00 103.50 143.75 94.25 72.00 55.00 75.75 57.50 87.25 64.25 46.75	78.25 6.63 16.94% 18.91 (* - 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
SHATTER	1,25 1,25 1,25 1,25 1,25 1,25 1,50 1,25 1,25 1,50 2,00	0.24 29.67% 0.68% 0.09 0.00 0.00 0.00 0.00 0.00 0.00 0.0
		GRAND MEAN  VABLETY MEAN  VAFIETY MEAN  VOF VARIATION  ********S)  B E L A T I  ELD KG/HA  TO MATURITR  ULE WEIGHT 1  ULE WEIGHT 1  ULE WEIGHT 1  ULE WEIGHT 2  NI BER 2  ULE WEIGHT 1  LCDGING  SHATTER  PER
VABIETY OF CROSS	CAILAND HARDEE BCSSIER TRACY SEMMES FORREST WILLIAMS COLUMBUS COLUMBUS GCODWORTH DAVIS HAFPTCN 266A COBB	GRAND ERROR OF A VARIOR OF VARIOR OF VARIOR OF VARIOR OF VARIOR OF VARIOR OF A VARIOR OF A VARIOR OF OF VARIOR OF OF VARIOR OF
ENTEN	\$ 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

TABLE 107 EXPERIMENT 407 YEAR 1975

SITE - MAZAF-1-SHARIF

SITE - MAZAF-1-SHARIF

LATITUDE - 37 DEG. N

CCOPERATCR - MOHAMMAL AZIM BAKHIERWAL

CCOPERATCR - MOHAMMAL AZIM BAKHIERWAL

YIELL DAYS TO NODULE NODULE NODULE

KG/HA FLOWER MATURITY NUMBER 1 NUMBER 2 WEIGHT

LOEGING	1.03 1.03 1.00 1.00 1.00 1.00 1.00 1.00	1.36 0.15 22.74% 0.44	-0.25 0.62++ 0.62++ 0.01 0.01 0.01 0.02++ 0.03++ 0.
PLANT EEIGHT	78.75 77.25 83.75 76.25 67.25 83.00 75.25 88.75 131.75 77.03 72.25	45.05 4.12 9.69%	0.022 0.043 0.043 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0
NODULE WEIGHT 2	00000000000000000000000000000000000000	0.43 0.23 106.148 *******	000000000000000000000000000000000000000
NOCULE WEIGHT 1	0.17 0.25 0.12 0.12 0.16 0.15 0.07 0.25 0.28 0.28	0.22 0.09 1.09 85.36% *******	-0.16 0.07 0.07 0.00 0.00 0.00 0.00 0.00 0.0
NODULE NUMBEE 2		0.00 0.00% 0.00%	000000000000000000000000000000000000000
NODULE NUMBEE 1	000000000000000000000000000000000000000	0.00 0.00 0.00 0.00 (+ - PRO]	000000000000000000000000000000000000000
DAYS TO	103.00 101.00 1131.00 1126.00 131.00 113.00 102.00 1534.00 134.00	125.29 0.00 0.00 s	-0.494 -0.000 -0.000 -0.000 -0.000 -0.594 -0.594 -0.598 -0
LAYS TC FLOWER	51.00 65.00 65.00 67.00 68.00 68.00 74.00 68.00 85.00 68.00	62,79 0,00 0,00% A I I C N	-0.52 -0.00
YIELE KG/HA	2971.84 2683.04 2472.99 2452.57 2374.64 22248.78 2222.11 2151.26 2067.50 1903.30 1669.50 1614.07 1456.96	2071.19 254.80 28.47% 843.29 0 R F E L	1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.02
	Z K	GRAND MEAN  GRAND MEAN  ICIENT OF VARIATION  MEANS (******=NS)	C FLOWER C MATUBITY E NUMBER 1 E WEIGHT 1 E WEIGHT 2 T LODGING SHARVEST R HARVEST R PLANT D WEIGHT V CF SEED
VARIETY OF CROSS	CALLAND WCCDWORTH TEACY CLARK 63 FCREST PAVES BCSILR CCLUMBUS WILLIAMS WILLIAMS IMPROVED PELICA SEMMES HARPICN 266A CCBB	STANDARD ERROR OF A VA CCEFFICIENT OF ISE VARIETY MEANS (**	XIELD DAYS TC DAYS TC DAYS TC NCDULE NCDULE NCDULE NCDULE FLANT POES PER 100 SEED OUALITY
FNTER	11	N I I I I I I I I I I I I I I I I I I I	

(CCNTINLEE)

QUALITY OF SPEE	2 2 2 3 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2.00 0.00 % 0.00% PROB=.01)	-0.535+ 0.635+ 0.00000000000000000000000000000000000
100 SEED WAIGHT	13. 950 14. 95 14. 95 14. 95 16. 33 16. 33 17. 96 17. 96 17. 96 17. 96 17. 96	13.75 0.40 5.84% 1.15	0,50++ -0,69++ -0,75++ -0,00 -0,00 -0,11 -0,52+ -0,62+ -0,01 -0,01 -1,00 -1,00
PODS FEB	433.25 403.25 403.25 703.25 703.25 703.25 703.25 703.25 703.25 703.25 703.25 703.25 703.25 703.25 703.25 703.25	42.89 2.76 12.88% 7.90 PROB=.05	0.31+ -0.54+ -0.54+ -0.00 -0.00 -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.53+ -0.00
PIANTS	115.00 139.00 120.00 120.00 141.00 148.00 158.00 148.00 148.00	135.79	0.092*** 0.92*** 0.92*** 0.000 0.000 0.010 0.014* 0.53** 0.53** 0.53**
SHATTER	000000000000000000000000000000000000000	1.33 0.00 0.00% 0.00%	000000000000000000000000000000000000000
	z	GRANL MEAN VARIETY MEAN CF VAFIATION (************************************	K G/HA FLOWER MATUBLIY NUMBER 1 NUMBER 2 WEIGHT 2 WEIGHT 2 LODGING SHATTER HARVEST PLANT WEIGHT CF SEED
VARIETY OR CROSS	CALLAND WOCDWORTH IRACY CIARK 63 FCAREST DAVIS BOSSIER COLUMBUS WILLIAMS IMPROVED PELICAN SIMMES HAMPTON 266A COBB	RD EEBOR OF A COEFFICIENT ARIETY MEANS (	YIELD DAYS TO DAYS TO NCDULE NCDULE NCDULE NCDULE PLANT PLANTS PODS PER 100 SEED OUALITY
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TABLE 1

YEAR 1975

RECION - ASIA

SITE - JOYDE VPUR

LATITUDE - 24 DEG. N

LONGITUDE - 90 DEG. E

COOPERATORS - A. SOBHAN, M.Z., HOQUE, P.R. HOBBS

DATP PLANTED - JANUARY 22, 1976

SOIL TYPE - SAN 26%, SILT 44%, CLAY 30%, PH 7.7

PERTILIZER USED (KG/HA) - P 60.0, K 60.0

AMOUNT OF HOISTURE - 1068 MM

NUMBER OF IRRIGATIONS - 6 (152 MM)

LODGING	1,55 1,55 1,55 1,50 1,50 1,50 1,50 1,75 1,50 1,75 1,50 1,75 1,50	30.122 30.122 30.134 0.136 0.136 0.136 0.250 0.250 0.250 0.060 0.060
PLANT	32.98 32.38 32.38 33.68 33.68 32.35 32.35 32.35 32.35 37.45 37.45 35.95	32.54 11.98% 5.58% 5.58% 0.10 0.13 0.14 0.20 1.00 1.00 1.00 0.15 0.22 0.02 0.05 0.05 0.05 0.05 0.05 0.0
NODULE WEIGHT 2	1,64 1,54 1,54 1,03 1,03 1,03 1,03 1,03	1.19 31.00% 0.19 0.53 0.39++ 0.94++ 0.94++ 0.94++ 0.20 0.19 0.20 0.20 0.20 0.20 0.00
NODULE WEIGHT 1	00000000000000000000000000000000000000	0.21 0.05 0.13 0.13 0.13 0.91 1.00 0.95 1.00 0.95 0.14 0.14 0.95
NODULE NUMBER 2	108.00 1028.00 142.00 65.50 74.25 52.37 62.35 70.50 70.00	82.11 12.59 30.68% 36.03 6.03 6.03 7.039 7
NODULE NUMBER 1	91.25 127.25 127.25 49.00 54.75 39.00 73.75 56.00 57.00 57.00	(+ - PROB= 0.38++ -0.27+ -0.27+ -0.99++ 0.99++ 0.97++ 0.97++ 0.13 0.13 0.13 0.13 0.09
DAYS TO	114.75 108.50 100.75 117.50 117.00 117.00 118.00	2.64 4.64% 7.55 7.55 7.55 7.55 7.55 7.55 7.55 7.5
DAYS TO FLOWER	36.00 36.25 34.50 34.50 38.25 38.25 37.50 32.25 32.75	35.13 0.34 1.948 0.98 0.02 0.02 0.02 0.02 0.03 0.03 0.03 0.03
YTELD KG/HA	533.38 501.06 495.57 482.16 429.24 363.55 356.80 312.26 301.12 246.78 168.52	358.05 64.66 36.12% 36.12% 1.00 0.22 -0.41* 0.39** 0.39** 0.16 -0.01 0.12 0.01 0.12 0.01 0.01 0.01 0.01
0 0 0 0 0 0 0 0 0 0	_	HEAN HEAN HION HION CG/HA COWER COWER TRITY SER 2 SHT 1 SHT
VARIETY OR CROSS	SEMMES COLUMBUS WILLIAMS DAVIS WOODWORTH CLARK 63 CALLAND TRACY BOSSIER HAMPOVED PELICAN FORREST COBB	TELEBRIT  TELEBRIT  MERNS ( DAYS  NOD  NOD  NOD  PL  OUAL  DISE  DISE
ENTRY	40000 TO	STANDARD ERRC COEFF 5% ISD VARIETY

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YEAR 1975

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0 0 0 0 0 0					01)	-0.11	0.03	0.02	0.11	10.14	0.07	-0.00	0.00	000
1 1 1 2 2 2					- PROB=.	000								
QUALITY OF SEED	2.25	3 7 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	72222222222222222222222222222222222222	3.82 0.55 28.92%	05 ++	-0.53++	m m	6 0	2.	-0.02	19	V 0	0	-0.12
WEIGH			14 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	13.29 0.01 0.13%	(+ - PROB=	0.02	0.11	0.13	0.15	0.00	0.20	0.29+	0.00	00.00
PODS PER 1 PLANT 14.75	20.00	14.75 19.75 18.75	18.00 18.00 13.25 23.00 15.00	16.71 1.91 22.85% 5.46	S	0.12			35					
			84.75 94.50 109.75 86.75 85.75	92.89 7.16 15.41% 20.47	TION	-0.01	0.24	0.25	-0.02	1.00	-0.16	60.0	00.00	0
SHATTER 1.25	1.25	1.50	1.25 1.25 1.25 1.25	1.34 0.22 32.23% ******	ORRELA	-0.09	00		-0.11	1.00	-0.29+	-0.02	00.00	0.00
			N O Pa D I	GRAND MEAN VARIETY MEAN OF VARIATION (************************************	O	KG FLO MATUR	NUMBER	2 (2) 2 (3)	HEI	SH	PL	OFS		
VARIETY OR CROSS SEMMES	COLUMBUS WILLIAMS DAVTS	WOODWORTH CLARK 63 CALLAND TRACY	BOSSIER HAMPTON 266A IMPROVED PELIC FORPEST COBB HARDER	TANDARD ERROR OF A CORPPICIENT LSD VARIETY MEANS (		YIELD DAYS TO	NODULE	NODOLE	74	PLANTS	PODS PER 100 SEED	OHALITY	DISEASE	DISEAS
SNTRY NUMBER 14	674	10 8 7	W+~0+0	STANDA!										

YEAR 1975
467
EXPERIMENT
109
TABLE

	LODGING	0000	00000		1.00 0.00 0.00%	000000000000000000000000000000000000000
	PLANT			40.75 46.25 38.25 38.25 44.50	43.90 1.51 6.87% 4.31	0. 39 + + + + + + + + + + + + + + + + + +
	NODULE WEIGHT 2	0000	00000	000000	0.00	
3 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	NODULE WEIGHT 1	0000	00000		0.00 0.00 0.00% 0.00 + - PROB=	
. 57 MIN.	NODULE NUMBER 2	0000	00000	0000000	00°00 0°00 0°00 0°00 0°00	000000000000000000000000000000000000000
- INDIA N - 393 M E - 79 DEG VESTED - 0	NODULE NUMBER 1	0000	00000		0.00 0.00 0.00% 0.00 (+ - PROB	000000000000000000000000000000000000000
COUNTRY ELEVATIO LONGITUD DATE HAR	DAYS TO	2 7 60	3 A B B B B	894,00 894,00 884,70 885,70	96.93 1.41 2.92% 4.04	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
N. S.K. MEHTA 5 3	DAYS TO FLOWER	2.5	6.0	29.25 32.25 30.50 27.50 28.00	36.57 4.53 24.77% 12.94 A T I O N	+ + + + + + + + + + + + + + + + + + +
. SHARMA, LY 15, 197 LOAM, PH 7 KG/HA) - N E - 1489 M	YIELD KG/HA	9.20.0	000000	1894.13 1894.13 1764.94 1425.28 1410.70	2266.70 150.49 13.28% 430.12 0 R R E L	**************************************
PUR 13 DE 1 S. 1 CLAY 1 SED 1 STU					GRAND MEAN VARIETY MFAN OF VARIATION (********C	KG/HA PLOWER PLOWER 1 NUMBER 2 NUMBER 2 WEIGHT 1 WEIGHT 1 WEIGHT 2 LODGING SHATER HARVEST PLANT WEIGHT OF SEED III
REGION - ASIA SITE - JABALP LATITUDE - 23 COOPERATORS - DATE PLANTED SOIL TYPE - C FERTILIZER US AMOUNT OF MOI	VARIETY OR CROSS	COBB HAMPTON 266A JUPITER HARDEE	DAVIS IMPROVED PELICAN BOSSIER FORREST	J.S.Z ULLIAMS COLUMBUS TRACY WOODWORTH CALLAND CLARK 63	GR STANDARD ERROR OF A VARI COEFFICIENT OF V LSD VARIETY MEANS (****	YIELD DAYS TO DAYS TO NOBULE NOBULE NOBULE NOBULE PLANT PLANT PLANTS PODS PER 100 SEED QUALITY DISEASE DISEASE
	ENTRY	3 - 2 5	L 4 0 0 u	113 113	STANDARI	

YEAR 1975

467

EXPERIMENT

FABLE 109

1975	
YEAR	
351	
EXPERIMENT	
110	
TABLE	

	NODULE PLANT TSHT 2 HFIGHT LODGING	00 05 05 30	0.00 50.25 1.00	.0) 40.00 1.0	.00 35.50 1.0	.00 71.25 2.2	.00 41.50 1.0	20 29.50 1.0	.00 32.50 1.2	.00 29.25 1.0	00 88.50 2.7	.00 25.50 1.0	.00 66.50 1.5	.00 45.15 1.4	.00 5.C1 0.21	0.00% 22.2C% 29.35% 0.00 14.32 0.60		4		00 00 00 00 00 00 00 00 00 00 00 00 00	0.00 0.00 00.0	0.0 00.0 00.	0.0 00.0 00.0		0.70++	.00 -0.12 -0.0	.00 -0.13 0.0	0.0 0.0 00.			0.00 0.00 0.00	0.0 00.0
, 1975	E NODULE 2 WEIGHT 1 WE	00.0	00.00	00.00	00.0		0.00	000	000	0.00	00.0	000	00.00	0.00	0.00	00.00 %00	++ - PPOB=.01)				0.00	00.00	1,00	0.0	0.00	0.00	00.00	0.00	00.0	00.00	00.0	00-0
- INDONESIA ON - 270 M DE - 107 DEG. E RVESTED - OCTOBER,	NCDULE NOBER NUMBER 1 NUMBER	00	0.00	.00	00.		.00	00.	00	.00	00	00	.00 00.	.00 00.	.00	0.0	(+ - PROB=.05			000	.00 00.	.00	.00		00	.00	.00 00.	.00		00	.00 00.	00
CCUNTRY ELEVATI LONGITU ARNC DATE HA D.O, P 44.C, K 41	AYS TO DAYS TO FLOWER MATURITY	0.87 00.	0.00	0.68 00.	.00 78.0	00.88.00.	.00 82.5	00.87	.00 87.0	.00 78.0	0.00 89.0	.00 78.0	.00 88.5	.00 82.5	.00 1.23	0.00 3.52	TIONS			1.00	0.0	0.0 00.	0.0		00 0-21	.00	.00 -0.3	0.0	0.00	0.0	0.0 00.	0 0
DEG. 30 MIN. S - R.D. FREED, SUM - JULY 16, 1975 BROWN REGOSCL SED (KG/HA) - N 50 IES - NO. 29, ORB	YIELD D KG/HA	73.1	1146.90	9.00	73.1	28.1	08.1	04°3	28.0	21.0	28.9	07.6	47.1	884.3	76.70	ICN 17.35% NS) 219.23	CCRRELA	*		0.0-	0.0	2 0.0	1 0.0	HT 0.0	0.0	-0-	0.0-	0.0	TED -0.00	0°0	0 0	00.00
REGIGN - ASIA SITE - BOGOK LATITUDE - 6 CCOPERATORS - CATE PLANTED SOIL TYPE - B FERTILIZER USI AMOUNT OF MOIL LOCAL VARIETIE	ENTRI VARIETY NUMBER OR CROSS	C C	LLIAM	CLARK 63	GOODWORTH Coremens		TRACY	DAVIS	HARDE	BOSSI		HAMPTON 266A	JUPITER		STANDARD ERROR OF A VARIETY ME	COEFFICIENT OF VARIATI			REAL OF SYRCE	E	N	NUMBE	38 (	NOTOLER STOCKON	T				TERT AU ALLENO	1	24	

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5% LSD

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PERCENT OIL	21.8 22.0 22.0 22.0 21.0 21.0 21.1 21.1 21.5 21.5 21.5 22.0 20.7		01)
PERCENT	4 4 4 8 8 4 4 8 8 4 4 8 8 1 4 4 4 1 1 8 4 5 9 6 1 4 4 5 9 6 9		PROBE
QUALITY OF SEED	000000000000000	0.13 0.37 0.37	- 05 - 0.44 - 0.00 - 0.00 - 0.00 - 0.00 - 0.00 - 0.29 - 0.29 - 0.29 - 0.29 - 0.29 - 0.29 - 0.00 - 0.000 - 0.0000 - 0.000 - 0.
100 SEED WEIGHT		% 000 000 000 000	(+ PROBE
POES PER PLANT		× 0000	000000000000000000000000000000000000000
PLANTS	217.75 1997.75 188.00 224.50 215.25 189.75 240.50 233.25 240.50 212.75 228.75 201.75	13.57	A T I O N
SHATTER	000000000000000000000000000000000000000	* 0 P * 0 P *	R R E L L L L L L L L L L L L L L L L L
	ш С 2	E H H H S	KG/HA PLOWER MATURITY NUMBER 1 NUMBER 2 WEIGHT 2 WEIGHT 1 WEIGHT 1 MEIGHT 1 PLANT PLANT PLANT PLANT PLANT PLANT III
VARIETY OR CBOSS	ORBA WILLIAMS CLARK 63 WOODWORTH COLUMBUS IMPROVED PELICAN TRACY COBB HANDEE BOSSIER NO. 29 PORREST HAMPTON 266A JUPITER	STANDABD ERROR OF A VARIETY COEFFICIENT OF VARIA LSD VARIETY MEANS (************************************	YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANT PODS PER 100 SEED QUALITY DISEASE DISEASE
BNTRY	25 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	STANDA!	

YEAR 1975	
EXPERIMENT 626	
TABLE 111	

	PPCTON - BCTA			11100	JTRV -	ATSTACTAL TABONESTA	FCTA			
	SITE - KEBUN JERUK			ELE	ATION	LEVATION - 50 M	0 1 2 2 2 2			
	LATITUDE - 3 DEG. N			LONG	SITUDE	CONGITUDE - 99 DEG.	DEG. E			
	COOPERATOR - A. DJAMHURI-M									
	DATE PLANTED - DECEMBER 28, 1975	1975		DAT	3 HARV	ESTED	DATE HARVESTED - APRIL, 1976	1976		
	SOIL PH 5 - 6									
	FERTILIZER USED (KG/HA) - N 30.0, P 13.1, K 25.0	30.0%	۵	13, 1,	(25.0					
	AMOUNT OF MOISTURE - 209 MM									
_ h		DAVS	I OF	DAVS	TO LE	THUCK	NO N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	VIET DAYS TO DAYS TO NOBILE NOBILE N	N
ę		2 4 4 6		2 4 17 0	1			1		

LODGING		0.00	
PLANT	68.69 46.91 17.45 19.90 13.38 15.38 15.03 19.14 26.88	24. 18 11.06% 3.86	0.77 ++ 0.20 0.20 0.20 0.24 0.30 0.30 0.00 0.00 0.00 0.00 0.00 0.0
NODULE WEIGHT 2	0.55 0.36 0.36 0.05 0.05 0.08 0.13 0.13	0.33 0.16 94.68% 0.45	0.31+ 0.03+ 0.93+ 0.93+ 0.93+ 1.00 0.03+ 0.017 0.00 0.00 0.00
NODULE WEIGHT 1	0.48 0.19 0.04 0.08 0.29 0.20 0.26 0.33	0.25 0.11 90.28% ******	0.24 0.00 0.49 1.00 1.00 0.30 0.22 0.28 0.28 0.00 0.00 0.00
NUMBER 2	131.75 104.25 209.50 7.75 143.25 40.25 26.25 32.75 82.25	82.41 23.00 55.81% 66.41 **	0.32+ 10.00 10.34+ 10.00 0.52+ 0.93++ 0.00 0.00 0.00 0.00 0.00
NODULE NUMBER 1	82.25 97.00 146.50 36.75 21.00 124.00 102.75 181.50 128.25	102.30 16.67 32.59% 48.13 (+ - PROB=	-0.16 -0.00 -0.00 -0.39 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00
DAYS TO	91.00 94.00 886.00 90.00 94.00 94.00 94.00	91.09	-0.15 -0.00 -0.00 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.42 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00
DAYS TO FLOWER N	3 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34.00 0.00% 0.00% T I O N S	000000000000000000000000000000000000000
YIELD KG/HA	787.66 654.30 455.09 435.50 300.06 285.47 281.31 200.04 139.61	433.72 103.95 47.94% 300.20	1.00 0.00 0.15 0.32 0.24 0.31 0.77 0.72 0.72 0.72 0.00 0.00 0.00
		GRAND MEAN VARIETY MEAN OF VARIATION (************	RG/HA PLOWER MATURITY NUMBER 1 WINBER 2 WEIGHT 1 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 1 WEIGHT 1 WEIGHT 0 WEIGHT 1 WINDER
VARIFTY OR CROSS	IMPROVED PELICAN JUPITER DAVIS PORREST BOSSIER SEMMES HAMPTON 266A HARDEE WILLIAMS CALLAND TRACY	GRI STANDARD ERROR OF A VARI COEFFICIENT OF VI 5% LSD VARIETY MEANS (****	YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE PLANT PLANT PODS PER 100 SEED QUALITY DISEASE DISEASE
ENTRY	3-600-C400-C	STANDA 5% LSD VI	

V OT NA	VARITORU		OF B MRC	2	000				
NUMBE	~	SHATTER	HARVEST	PUDS PER PLANT	WEIGHT	QUALITY OF SEED	PERCENT	PERCENT OIL	
77	IMPROVED PELICAN	1.00	114,25	61.75	11.50	2.75	40.3	24 5	
-	JUDITER	1.00	99.25	46.58	11.50	300	43.8	21.5	
9	DAVIS	1.00	112.00	25, 18	14.00	2,75	41.7	27.2	
œ	PORREST	1.00	79.50	30.03	12.00	3.75	41.4	23.3	
2	BOSSIER	1.00	34.25	25.03	12.50	3.50	43.9		
11	SEMMES	1.00	00.49	24. 18	13, 25	2.50	45.8	20.00	
~	HAMPTON 266A	1.00	31,75	23. 60	15.50	3,00	41.8	22.0	
m	HARDEE	1.00	17.00	31,33	14.50	3-00	43.0	23.7	
6	WILLIAMS	1.00	25.00	22.18	13.00	3-00	44.0	23.6	
10	CALLAND	1.00	8,75	30, 30	13,75	3.75	42.1	277	
7	TRACY	1.00	7.00	13.45	12.50	5.00	42.5	23.3	
		1.00	53.89	30.32	13.09	3.27			
STA	NDARD ERROR OF A VI	00.00	7.15	68 " 17	0.85	0.20			
	COEFFICIENT OF VARIATION	0.00%	26.55%	20 011 CE	12 06%	10 CF			
5% I.S	*	00.00	20.65	14.12	2.45	0.58			
	υ	ORREL	ATTON	S	(+ - PROB	= 05 ++	- PROB=.	01)	
	FLD KG/H	00	0.76++			-0-47++	00.00	00.00	00 0
	10	00	0.00		00.00	00.00	0.00	00.00	00.00
	M	00	-0.42++		0,15	0.05	00.00	0000	
		00	-0.02		0.16	-0.23	00.00	00-0	
		00	0.62++		-0.09	-0-21	00.00	00.00	
	WEIGHT	00	0.22		-0.18	-0.12	00.00	00-0	
	(F)	00	0.55++		-0.05	-0.15	00.00	00.00	
		00	0.58+			-0.29	00.00	00 0	0
	LODGING	00	00.00		00.0	00.00	00 0	00-0	
	S	00	00.00		00.00	00.00	00 00	00 0	
	TS HA	00	1.00			-0.43++	00.00	00.00	
	88	00	0.45+	Ļ.		-0.37+	00.00	00 0	00 00
	ED WEIG	00.00	-0.32+	-0.38+	1.00	-0.16	00.00	00 0	00 00
	TY OF S	00.00	-0.43++	1	-0.16	1.00	00.00	00.00	00.00
	S E	00.00	00.0		00.00	00.00	1.00	00.00	0.0
	5	00.00	00.0		00.00	00.00	00.0	1.00	0.0
	E	00.00	00.0		00.00	00.00	00.00	00.00	1.00

YEAR 1975 (CONTINUED)

EXPERIMENT 626

R 197	
YEA	
381	
EXPERIMENT	
12	

TABLE

LO.

	#BIGHT 2  0.69  0.97  0.87  1.18  0.85  0.62  0.62  0.97  0.97  0.97  0.57  0.57  0.57  0.14  35.55%  0.11  0.08	0.000 0.000
• B 1975	WEIGHT 1  0.54  0.66  1.04  1.04  0.88  0.97  0.72  0.63  0.63  0.63  0.64  0.62  0.64  0.67  0.68  0.68  0.68  0.68  0.68  0.68  0.68  0.68  0.68  0.67  0.68  0.68  0.68  0.68  0.68  0.69  0.68  0.68  0.69  0.69  0.69  0.69  0.60  0.	
DEG. 30 MIN. NOVEMBER, 1	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
KOREN - 188 - 126 - 126 - 126 - 126	N U B B S S S S S S S S S S S S S S S S S	1 1 1
COUNTRY ELEVATION LONGITUDE M. YOHE DATE HARVE	MATURITY 117.50 120.50 120.50 120.50 122.50 121.25 101.00 151.25 101.00 151.25 117.25	0.000000000000000000000000000000000000
N N N N N N N N N N N N N N N N N N N	H	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
DEG. 30 MIN. N K.Y. PARK, S.K JUNE 11, 1975 ID (KG/A) - N TURE - 795 MM - EUNDAEDU	KG/HA 179.87 167.45 167.20 149.86 143.86 113.02 112.27 102.81 102.81 96.52 120.33 17.09 28.41% 48.85 0 R R E L P	0.01 0.03 0.08 0.00 0.00 0.10 0.19 0.20 0.23
A SE	MERAN MERAN TION TION C C C G CHA	NUMBER 1 NUMBER 2 WEIGHT 1 WEIGHT 2 LODGING SHATTER HARVEST WEIGHT 0 F SEED II
REGION - ASI SITE - JEJU LATITUDE - 3 COOPERATORS DATE PLANTED PERTILIZER U AMOUNT OF MO LOCAL VARIET		NODULE NODULE NODULE PLANT PLANTS PODS PER 100 SEBD QUALITY DISEASE DISEASE DISEASE
	NUMBER 9 9 9 7 7 7 115 110 111 111 111 111 111 111 111 111	

72.30 80.05 66.45 77.20 77.20 77.10 77.10 77.10 77.10 77.10 77.10 77.10 93.10 93.10 93.70 93.70

LODGING

PLANT

1.00

95 84 92%

8 2 . 8

-0.57+ 0.57+ 0.51+ -0.34+ -0.34+ -0.34+ -0.34+ -0.34+ -0.00

- 202 -

YEAR 1975

																								90 0-		-0.07	-0.03	0.05	+0°0-	0, 15	0.05	0.03			000	ro o o	00.00	ر٥. ٥٠	-0.08	0.17		1.00
																							1)	0 23		70.0	10.18	0.20	0.22	0.23	0.35++	-0.20				70.0	V	0.10	-0.01	0.13	1.00	10.0-
																							- PROB=.01)	0.20	0	10.0344	0.13	10.0-	0.10	0.04	0.13	-0.22	200		0.00		0.29+	0.31+	<b>\1</b>	poten.	-	0.17
QUALITY OF SEED		3.50		4.00	3,25	4.50	4.25		•	67.4	4.00	3.00	2.75	3, 25	27.6	- (	_	0	2000	0.36	20.01%	1.03	*05 ++	0.07	-0 116 4.1		77.0-	0.10	0.12	0.10	0.25+	-0.31+	00.0		00.01	7000	107.0		000	0.24	-0.01	+0.08
00 SEED WEIGHT	16.93	17.98	17.98	13.50	20.00	21.70	21.80	במ מן	0.00	10.07	14.13	14.10	15, 18	15.05	14 93	7000	13.05	10 21	10.91			3.22	(+ - PROB=.	0.19	-0 6144	1000			0.43++	0.10	0.19	-0.41++	00-0	0.00	-0.36++	++900		000	0.0	0.31+	0.16	0.05
PODS PER 1	34.30	23.90	38.23	20.30	32.48	36.70	34, 33	21 30	20 02	10.00	00.01	17.70	13.75	7.55	11.98	200	7 - 6	23 63	70.77	3.66	32.04%	10.45		0.69++	LC	-0.6144		2000	++04.0	0.12	0.28+	-0°64++	00.00	00.00	-0.33++	) (	74.60	} C	07.0	7 .		0
PLANTS P	88.25	82.50	73.50	71.25	73.00	64.25	58.25	65.00		77 25	C7 . / /	89.75	65.50	84.25	10		_	76 87	°	8.85	23.03%	ŝ	TIONS	-0.10	0.44ph	200			Э,		0				1.00		75.0		•	9	0	Ö
SHATTER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1 00			1.00	1.00	1.00	1,00		000	100	0	000			ORRELA	0	0	, C	. (	, (	> '	0	0	0.	0	0	00 0	0			•	0 0	0	0
																		IND MEAN	: 3	<b>⊢</b> }	IAI	# *	υ	KG/HA	FLOWER	O MATHRITY	TIMBED 1	C GGGW	2 Machon	EIGHT	EIGHT 2	HEIGHT	LODGING	SHATTER	HARVEST	TNATO	10日日 日西	CHEC	)	a	11	III
VARIETY OR CROSS	PORREST	DAVIS	TRACY	EUNDAEDU	COLUMBUS	CALLAND	WILLIAMS	CLARK 63	MOODWORTH	COBB		IMPROVED PELICAN	HARDEE	BOSSIER	HAMPTON 266A		OCETIEN CO	IN A AU	man a acada daka		_	VARIETY MEANS (*****		YIELD	DAYS TO	E	1	N BILLON	TOTON!	NODOLE	NODOLEW	PLANT			PLANTS	PODS PER	100 SEED	OHALTTY	BOSE OF C	ULDERDE	UISEASE	DISEASE
NUMBER	6	_ (	9	15	10	14	13	11	12		` =	<del>,</del>	<b>~</b>	9	2	-	-		CHARDA			5% ISD V																				

YEAR	
385	
EXFERIMENT	
113	
TABLE	

	LATITUDE - 37 DEG. 16 MIN. N CCOPERATORS - K.Y. PARK, S.K. KIM, J.M. YCHE	DATE FLANTED - MAY 21, 1975 DATE HARVESTED - SEPTEMBER, 1975 SOIL TYPE - SAND 10%, SILT 50%, CLAY 40%, PH 5.2	FERTILIZER USED (KG/HA) - N 40.0, P 50.0, K 44.0	IICNS - 1 (20 MM)	
REGICN - ASIA SITE - SUWEON	LATITUDE - 37 DEG. 16 MIN. N CCOPERATORS - K.Y. PARK, S.R	SOIL TYPE - SAND 10%, SILT	FERTILIZER USED (KG/HA)	NUMBER OF INFIGATIONS - 1 (20 MM)	TOTAL TREDUCE PERSONS PAC

ENTRY	VARIETY OR CECSS	0 0 0 0 1 0 0 0 0 0 0	YIELD KG/HA	DAYS TO FLOWER	DAYS TO	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NCDULE WEIGHT 2	PLANT	LODGING
13	WILLIAMS		1111.01	35.50	00	225.25	350.75	06.0	2.40	52.75	1.50
<b>♂</b>	CALLAND		1080.26	32.50	96.75	34.75	288.25	0.21	1.79	00.09	2.75
10	COLUMBUS		1028.87	39.25	9	295.00	418.75	1.29	2.89	59.00	2.25
12	WOODWORTH		915.27	34.50	5.	192.75	286.75	0.93	2.61	51.55	3.00
-	BEESON		892.05	32.00	7.	43.50	205.00	0.27	1-11	43.60	1.75
-	CLARK 63		876.26	36.75	œ	117.25	260.00	0.66	1.97	46.70	3.00
5 1	PORREST		873.84	43.00	æ	268.75	397.75	1.77	3.22	60, 15	1.75
15	KWANG KYO		. 840.38	39.25	77	304.50	357.50	2,55	3.16	43.25	1.75
ي و	CORSOY		832,25	30.50	3.	72.75	255.25	0.45	1.08	35.05	1.50
00 1			164.49	32.00	77	100.25	284.25	0.52	1.47	36.25	1.25
5	AMSOY 71		744.11	32.00	5	80.00	276.50	0.21	1.26	38,95	1.75
m .	HARK		734.06	29.00	. 47	203.00	209.75	0.24	0.81	39.75	1.50
3	HODGSCN		577.99	28.25	9	121.50	230.75	0.41	1.17	27.60	1.50
2	SWIFI		548.03	28.75	76.75	113.75	226.75	0.48	1.73	37.50	1.50
-	ALTONA		459.30	25.00	69.50	153.50	177.50	0.34	1.28	41.40	3.75
	GRAND	D MEAN	8 18, 54	33.22	8	155, 10	281 70	76 0	40	30 111	c
STANFAR	STANFARD ERROR OF A VARIETY		20 20	22.00		07.00	07.00		000		2.03
TO A ME TO		TATION	30.00	2 tu	0.04	2. 7	38.40	0.14	0.23	2.95	0 30
EW 7 Ch UE	T C T E I I	TRITON	211 077	KCC • 7	<u> </u>	47.10%	71.60%	36.48%	24.56%	13.12%	29.84%
ON LOD VARIETY	KIETY MEANS (*********)	**= NS)	259.28	1.21	-	93.45	111.32	0°39	0.65	8. 43	0.87
		υ	CRRELA	TION	ν <sub>2</sub>	(+ - PROB=.0	3=, 05	++ - PROB=.0	01)		
	YIELD	KG/HA	1.00	0.45++	1 0.61++		0.34++	0.18	0.31+	0.64++	0.23
	TO	FLOWER	0.45++	1.00		0	9.0		0	0.58++	50.0-
		MATURITY	0.61++	0.92++	-	0	9 0	1 0.52++	0	0 74++	0.03
		NUMBER 1	0.21	0.50+	0	-	0		0	0.31+	0.06
		NUMBER 2	0.34++	0.64+4	0	0	1.0	0	O	0 43++	+0°0-
			0.18	0.73+4	0		0	_	0.78++	0.31+	-0.08
	(M) (M)	EIGHT 2	0.31+	0.77++	0.69		0.71	0		0.55++	0.14
	FLANI	HEIGHT	++ 10 0	0.58+		_	<b>寸</b>	0.3	0.55++	1. 00	0.39++
	T	LODGING	0.23	60.0-			0	-0.08	0.14	0 3 3 4 +	1.00
	TO STATE	SHATIER	0.00	0000	00.00	00.00	0	00.00	00.00	00.00	00 * 0
		DIANT	0.2.0	0.00			200		100	0. 12	-0° -4
		WEIGHT	0.26+	01-0-		,	0 05	1		+ + 0000 0000	0 - Z & +
	0	F SEED	-0.17	-0-30+		1			70.0-		300
	DISEASE	H	0.05	-0.12		'		0.13	60.0-	-0.03	
	DISEASE	II	-0.07	-0.38++	-0.27+	,	~	0.5		-0-12	0-33++
	DISEASE	III	-9	00-0	00.00			00	0	00.00	0
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			9 0 0 0 0 0 0			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		* * * * * * * * * * * * * * * * * * * *	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

YEAR 1975

	000000000000000000000000000000000000000
	-0.07 -0.38+ -0.27+ -0.38+ -0.29+ -0.29+ -0.12 -0.31+ -0.33+ -0.30+ -0.3
	- PROB=.01) - 0.05 - 0.12 - 0.14 - 0.13 - 0.03 - 0.03 - 0.03 - 0.03 - 0.03 - 0.03 - 0.03
OUALITY  OUALITY  3.00  3.00  3.75  4.00  3.50  4.00  3.50  4.00  3.75  4.25  4.25  3.37  4.25	1 000
	(+ - PROB= 1.36 0.26+ -0.10 -0.01 -0.01 -0.01 -0.01 -0.01 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.05 -0.00 -0
PCDS PER 1 17.30 20.75 10.28 10.28 117.23 11	
PLANTS P 130.050 135.050 135.050 135.050 148.25 154.75 147.75 147.75 147.75 147.75 147.75 147.75 144.75 144.75 144.75 144.75 144.75 140.07	E 1 1 1 1 1 1 1
SHATTER 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	A
GRAND MEAN METT WE METT WE MEAN	ATION FENS) CC CC COMER UNRITY BER 1 BER 1 BER 1 BER 2 GHT 1 GHT 2 EIGHT SEED III
TEY  WILLIAMS  CALLAND  COLUMBUS  WOODWCRTH  BEESON  CLARK 63  FORREST  KWANG KYO  CORSOY  WELLS  AMSOY 71  HARK  HODGSCN  SWIFT  ALTONA  STANDARD ERROR OF A VARIF	COEFFICIENT OF VARIETY REANS (*****  VARIETY REANS (******  NODULE NODULE NODULE NODULE PRODULE PLANTS  PLANTS  PODS PER  100 SEED  QUALITY  DISEASE  DISEASE
ENTEY BUNDA 114 110 111 120 131 151 161 171 171 171 171 171 171 17	2% LSD %

YEAR 1975
384
EXPERIMENT
114
TABLE

	PLANT HEIGHT L		$^{\circ}$	ur)	m y	96.25	(4	Q.	M3	चा	47 C	2 (4	-3	-	86.86	9. to	10.00%	96.68		4450	r v	, , -	0-18	. 4	26	1 00 42 +	0-54+	00	-0, 15	414	-0.39++	42		
	NODULE EIGHT 2			- 9		4-27	9		- 8			0 0			1 70	0.37	43.05%	1.05	01)	0 254	0.73++	0.53++	0.61++	0.83++	+++99"0	0.4244	0.48+	00.00	-0.16	0.23	10.40++		-0.65++	00 0
E 27.5	NODULE EIGHT 1 W	1.24	0-47	0.15	1,18	1.68	77 0	0.16	0.26	0.22	0.19	0.14	0.18	60 0	0.50	0.24	95.53%		+ - PROB=. (	71 0	0.68++	0.51++	0.63++	0.59++	1.00	0.26+	0.33++	00.00	-0.29+	0.26	++0110-	0.03	-0-57++	00.00
. 59 MIN. PPTEMBER, 1	NODULE NUMBER 2 W	_		.0	-0 0 1:	439,75	0	-	0	<u>.</u>	* T) =	: .:	'n			37.56			=°02 ++	71 0	- LC	3	0.53++		<b>LO</b> (	000	0	00.0	-0-2	0.20	++67-01	0.08	9	00.00
KOREA - 37 H - 126 DEG	NODULE UMBER 1					255.25									162, 35	27.62	34.02%	78.93	(+ + PROB=	20	0.63++	0.39++	1.00	0.53++	0.63++	0.018	0.52++	0.00	++0#*0-	0.27+	-0.37++	-0.03	VQ.	00.00
COUNTRY—ELEVATION LONGITUDE VCHE DATE HARVE 10%, PH 5.2	DAYS TO	_	P (**)	100	LO D	127.50	0		10	10 1	0.10	3 10	Popular	0.1		0				0 3344	7 0	1.00	0.39++	++0+*0	0.51++	0.03++	0.53++	00 00	-0.14	0.28+	-0.37++	-0-51++	-0.42++	00°0
N. K. K. M. J. M. 75 50%, CLAY 4 N. 40.0, P. 50 M. 119 MM)	DAYS TO FLOWER M	7 7	ω, α	0.6	6.0	58.00	0.5	3.0	5.7	2.2	o c	7 60	1.7	3.0	38.65	0.68	3.53%	1.95	TIONS	4460	000	9 6		.58	.68	673		0		0.43	-0.51++	0.35	++91-0-	00.00
16 HIN PARK, S. NE. 16, 19 NG./ HS, SILT RG./ HS) - H. IONS - 912 H. IONS - 11	YIELD KG/HA					1438-66								1160.61	-	* # 8 # 8	12.	- 4	ORRELA	00 6	0-44	0,33++	0.25	0.16	0.17	0.45+	0.33++	00.00	-0.33++	0.60++	-0.23	-0.19	-0.26+	
CN - ASIA  - SUBEON TUDE - 37 DEG. ERATORS - K.Y. PLANTED - JUNE ILIZER USED (KG. NT CP MOISTURE ER CF IRRIGATIO	9 5 5 6 6 9 9 9 9 9 9 9 9															ETY MEAN			U	EHY ON	PLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	MEIGHT Z HEIGHT	LODGING	SHATTER	HARVEST	ED4 1	WEIGHT OF SFED	3	II	III
REGICN SITE LATITUD CCOPERA CAPTE PL SOIL TY FETILI A MOUNT NUMBER LOCAL V	VARIETY R OR CRCSS	KERNG KYO	DWCR	CALLAND	COLUMBUS	FORREST	CLARK 63	CN	BEESCN	LAIMS	N SELLS COUNTY OF SELES	AMSOX 71	AC.	M.	2	H	COEFFICIENT OF V	VARIETY MEANS (***		2		TO	JLE			E E E E E E E E E E E E E E E E E E E	4 4 4 4		PLANTS		DESCRIPTION SERVICES	DISEASE	DISEASE	DISEASE
	ENTRY	15	12	14	10	2 6	=======================================	ħ	7	2	00 V2	o v	-	er)		STAL		5% LSD																

1.57 0.19 23.72% 0.53

LODGING

																							C		0		0	0	0	0.0	0	0	00 00	0	0	0	0	
																					01)	-0.26+	-0-76++	-0-42+	-0-64+	+++9-0-	-0.57+	-0.65++	-0.31+	+9	00.0	0.21	-0.29+	0.31+	0.70+	0.09	1.00	0
																					- FROB=.0	-0.19		0.51	0	0	0	-0.18	0	-0.17	00.00	0.01	-0.23	0.04	0.16	1.00	0.09	
OUALITY OF SEED	1.25	4.50	0	3.15	-0				- 6		•	9				. 2	3-92	0.24	12.01%	0.67	=.05 ++	Ö	++99-0-	-0.27+	-0.47++	0	0.4	-0.54++	0	-0.27+	00.00	0.28+	-0.51++	0.28+	1.00	0.16	0.70++	000
100 SEED WEIGHT	18,33	U &	- (	- t - O C	0 0	0.8	$\sim$	9	ത	$\sim$		ь ca	) T	• 0	α	$\sim$	16.78	0.72	8.63%	07	(+ - PROB=	-0.23	-0.51++	-0.37++	-0.37++	-0.33++	++0000-	++04.0-	-0.39++	-0.33++	00.00	0.13	-0.20	1.00	0.28+	0.04	0.31+	000
PODS PER 1 PLANT	37,53	<u>.</u> c	,,	° °	<u>.</u>	7	3	÷.	9	0	9	α	12 08	16 70	00.10	15.63	21.89	3.06	27.91%	8.73		++09*0	C. 43++	0.28+	0.27+	0.20	0.26+	0.23	-	m.		(1)	1.00	-0-20	-0.51++	-0.23	-0.29+	000
HARVEST	137.50	153.70	100.00	140.00	100.10	157.75	142.00	154.75	160.25	155,25	161,50	158.00	165.00	156 75	07.001	157.25	154.70	ις.	7.22%	Population	ATIONS	0	0	-0.14	0	0	-0.29+	0	0	-0.26*	00.00	1.00	-0.26+	0.13	0.28+	0.01	0.21	000
SHATTER	1.00				0	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1.00		000	1.00	0	00.00			CRREL	0	0.	0 .	0.	0.	0.	0.	0	0.	0	0	00.00	0.	0	0	0	C
																	E	Y MEA	IAT	(SN=****	Ü	KG/HA	FLCWER	MATURITY	NUMBER 1		[2]	WEIGHT 2	HEIGHT	LODGING	HATT	ARVE	PLANT	WEIG	S	H	II	TTT
VARIETY OR CRCSS	KWANG KYO	CALLAND				I O	CLARK 63	HODGSCN	BEESCN	SWIFT	WELLS	CORSOY	AMSOY 71	- 49		HAKK		ED ERFOR OF A VA		ARIETY MEANS (***		YIELD	DAYS TC	AYS TO	CDULE	NODULE	ODULE		PLANT			LANT	PODS PER	100 SEED	OUALITY	DISEASE	DISEASE	STARTE
NUMBER	15	14	0	13		, ,	=	7	7	2	89	9	5	-		7		STANDA		S% ISD V																		

YEAR 1975

EXPERIMENT 384

YEAR
383
EXFERIMENT
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TABLE

1975

	TO	86 ++ + + + + + + + + + + + + + + + + +
	PLANT	97. 45 95. 35 95. 35 95. 35 95. 35 95. 35 95. 35 108. 35 108. 35 108. 25 108. 25 108. 25 108. 25 108. 25 108. 25 108. 25 108. 35 108. 35 108 1
	NODULE WEIGHT 2	1.49 1.67 0.65 0.65 0.65 0.65 0.67 0.67 1.078 4.49 0.83 0.83 0.83 0.83 0.83 0.83 0.81 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.69
в 975	NODULE EIGHT 1	0.23 0.23 0.23 0.22 0.22 0.38 1.19 0.31 1.19 0.31 1.19 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.31
59 MIN.	NODULE UMBER 2 W	427.75 283.25 266.75 1989.25 304.25 304.25 316.25 446.25 308.80 41.84% 184.65 41.65 0.03 0.03 0.040++
KOREA - 37 H - 126 DEG.	NODULE UMBER 1 N	277.75 169.00 188.50 129.00 248.00 159.00 248.00 170.25 466.50 382.46% 81.25 248.75 248.75 248.75 248.75 159.00 230.75 32.46% 81.27 6.55+ 0.55+ 0.55+ 0.59+ 0.59+ 0.59+ 0.69+
CCUNTRY ELEVATION LONGITUDE VALE DATE HARY % PH 5.2 0, K 44.0	DAYS TO ATURITY N	125.25 118.00 104.25 111.50 111.50 111.50 1130.75 125.00 125.00 125.00 125.00 126.05 10.05 10.05 10.06
KIH, J.H M. CLAY 4 O.O, P.50	DAYS TO I	### ### ### ### ### ### ### ### #### ####
16 MIN. N V PARK, S.K V 10, 1975 10%, SILT RG/HA) - N E - 782 MH ICNS - 30	YIELD I	1698.92 1644.79 1562.69 1559.39 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.50 1472.64 1472.50 1472.50 1472.64 1472.50 1472.64 1472.6
ASIA  UMEON  - 37 DE  ORS - K.  NTED - J  RESTRICA	P	AND MEAN ETY MEAN ARIATICN ARANATION RG/HA RC/HA RC/HA RC/HA REIGHT 2 HRIGHT 1 HRIGHT 1 HRIGHT 2 HRIGHT 1 REIGHT 1 REIGH
REGION SITE SU LATITUDE CCOPPRATO DATE PLAN SOIL TIPE RECTILIZE A MCUNT CE NUMBER CE	VARIETY OR CROSS	RIH  N  EANS  TI  TI  TI  TI  TI  TI  TI  TI  TI  T
	ENTRY	13 WILLIA 12 HODGSC 4 HODGSC 6 CORSO X 3 HARK 14 CALLAN 11 CLARK 10 CLARK 11 ALLCS 2 SWIFT 9 FORRES 7 AMSO Y 5 AMSO Y 5 AMSO Y 5 AMSO Y 6 COEFFIG 5 AMSO Y 6 COEFFIG 6 COEFFIG 7 AMSO Y

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	PLANT HEIGHT L	20, 75 20, 80 30, 33 27, 50	26, 30 25, 30 25, 18 22, 80 22, 80 22, 20 24, 33 21, 13	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	-0.11 -0.30+ -0.30+ -0.00 -0.00 -0.26+ -0.26
	NODULE EIGHT 2	00000		0 0000	
975	NODULE EIGHT 1 W	00000		0 0000 0	000000000000000000000000000000000000000
20 MIN. E	NODULE UMBER 2 W	00000		0 0000	
NEPAL 1360 M - 85 DEG. ESTED - SE	NODULE UMBER 1 N	00000			000000000000000000000000000000000000000
CCOUNRY - ELEVATION IONGITUDE ANANDHAR DATE HARV	DAYS TO ATURITY N	00000	105.00 100.00 100.00 96.75 98.75 99.00 99.00	100.5 0.8 1.6 2.4	0.82+++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00
JUJUBHAI M 35.0, K 66	DAYS TO FLOWER M	00000	34,25 38,25 40,50 40,50 39,00 34,75 37,25 37,00	23.5 36.6 1.3 7.2 7.7	0.33 1.00 0.00 0.00 0.00 0.00 0.23 0.23 0.25 0.36 0.00
40 MIN. N NA PANDAY, NE 4, 1975 KG/HA) - P E - 1318 MM	YIELD KG/HA	30000	10361, 52 1074, 88 901, 85 909, 35 892, 26 878, 09 670, 13 558, 04	r, σ, σ, σ, σ, π	1.00 0.31 0.00 0.00 0.00 0.00 0.00 0.36 0.36 0.36
IA ALTAR 27 DEG 27 DEG 0 - JU CLAY USED (				MEAN MEAN TION	KG/HA FLOWER MATURITY NUMBER 1 NUMBER 2 WEIGHT 1 WEIGHT 2 REIGHT 2 REIGHT 1 WEIGHT 0 CON SEED III
REGION - AS SITE - KHUM LATITUDE - CCOPERATORS DATE PLANTE SOIL TYPE - FERTILIZER -	VARIETY OR CROSS	FORREST COLUMBUS BONUS WILLIAMS	CALLAND CCALLAND BEESON CLARK 63 HARK WODMORTH HODGSON SWIPT WELLS	ALTONA GRAND STANDARD ERROR OF A VARIETY COEFFICIENT OF VARIF LSD VARIETY MEANS (*******	YIELD DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANT PLANT PODS PER 100 SEED QUALITY DISEASE DISEASE
	ENTRY	1350	a 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	STANDAE	

YEAR
428
EXPERIMENT
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TABLE

1975

6		SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	PROTEIN	PERCENT		
	PORREST	2.00	109.50	15, 50	13.82		40.9	21.7		
	BONUS	1.00	° 8	14.75	18.50	1.25	43.8	20,3		
	WILLIAMS	1.00	144.00	16.25	19.92	9 6	44.4	21.4		
	CALLAND	1.00	3,	13.75	22.33		45.5	20.0		
	CORSOY	1.00	152.75	10.75	17.52		42,4	20.5		
		1.00	133.50	14.50	24.75		44.3	20.5		
	CLARK 63	1.00	112.00	18.00	20.10		44.6	20.2		
	HARK	1.00	144.50	13.00	19.96	3.50	45.1	21.6		
	WOODWORTH	1.00	144.00	12.80	19.06		100	22.6		
	22 (	1.00	110.50	14.13	18.70		41.9	23.1		
	ARSOY 71	1.00	139.50	11.50	20.00	5.00	43.0	20.00		
	SELPT	1.00	143.25	10,63	18,97		40.8	22.2		
	WELLS	0	116.00	12.25	17.05		47.8	23.3		
	ALTONA	1.00	157-25	8. 28	18.47		40.4	22.4		
	GRAND	1.12	137.05	13.62	19.42	1				
ANDA	VARIETY	0.12	11.48	1.56	0.89	0.32				
	T OF VA	21.56%	16.75%	22.89%	9.14%					
LSD V	VARIETY MEANS (*******NS)	0.34	CA	911 "11		91				
	U	ORRELA	TION	S	(+ - PROB=	=.05 ++	- PROB=.0	01)		
		9.	0	0.36++	-0.17	-0.75++	00.00	00-0	00	
	10	0.23	-2	0.48++	0.05	-0-36++	00.00	00-0	00.0	
	W	S	• 2	0.36++	-0-24	9 0	0000	00.0		
	NO	00.00	00.00	00 0	00.00	00.00	00 00	00.0	00.0	
	24	0	٥,	00.00	00.00	00.00	00-0			
	NODULE WEIGHT 1	0	00.0	00.00	00.00	00.00	00.0			
	100	00.00	0	0.00	00-0	00.00				
	PLANT HEIGHT	-0.26+	.2	0.39++	0.21	0.05	00.0		00.0	
	LODGING	00°0	0.	00.00	00.00	00.00	00-0	000		
	SHATTER	1,00	77 .	0 0 05	-0.42++	-0.57++	00.00		•	
	pic;	-0-41++	0.	-0.10	0.23	0.15	0000			
	(C)	0.05	-	1.00	0.16	-0-43++	00.00	000		
	WEIG	-0.42++	. 2	0.16	1.00	0.22	00.00		00.0	
	QUALITY OF SEED	-0.57++	0.15	-0.43++	0.22	1.00	00.00	00.00	00.0	
	na i	00 00	0	00.00	00.00	00-0	1,00	00.00	00.0	
	pa (	00.00	0	00.0	00.00	00.00	00.00	1.00	00 00	
	DISEASE	000	000					0 0		

	LODGING OCCUPANT OCCU	
	PLANT BEIGHT 39.25 33.75 45.50 36.50 35.50 35.50 35.50 42.75 42.75 29.25 34.60	
	METGHT 2 NODULE 106HT 2 0.00	
E 975	NODULE FIGURE 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ovember, 1	M N C T UL T T T T T T T T T T T T T T T T T	
- PAKISTAN E - 72 DEG VESTED - N	M M M M M M M M M M M M M M M M M M M	
CCUNTRY IONGITUD DATE HAR	LAYS TC  MATURITY  111.00  111.25  113.50  113.25  113.25  113.25  113.25	* * * * * * * * * * * * * * * * * * * *
65 YE	PAYS TTO TELL TO TELL	77K + 0000000000000000000000000000000000
. 25 MIN. JULY LY 25, 197 KG/HA) - N	YTELD KG/HA 364.38 363.16 332.52 316.59 316.18 273.29 273.29 273.29 273.65 213.66 213.66 213.66 213.66 213.66 213.66	1
SIA AMAEAD 32 DEG - W.H. ED - JU		GRAND MEAN  (*******=NS)  (*******=NS)  (*******=NS)  (********=NS)  (*******=NS)  (********=NS)  (********=NS)  (**********  (***********  (*********
TABLE 117 REGICN - A. SITE - ISL LATITUDE - CCCFEFATOR DATE PLANT! FERTILIZER	VARIETY OR CEGSS CO3B WULLIAMS JUPITER WOODWCETH HAMPICN 266A COLUMBUS BOSSIER HARDEE CLARK 63 IMPROVED PELICAN FORRES CALLAND DAVIS	L POOCHER S NE S
	ENTRY NUMBER 13 12 12 10 6 6 6 11 14 14 14 14	STANDAED VAR

YIEL	YS T	NODULE	TOTO	LAN	FIANT ES PE	OO SEE	DISEASE	ISEAS
- 213	-							

YEAR 197
323
RXPERIMENT
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TABLE

	LODGING	1.00	000	00	0.0	0	0	00	000	>	0 1	0.00%		C	. 0	.0	0,0	0 0	0	0.00		0	0	0,0	90	0	0.
	PLANT	00.00	0 9	0 9		00.00	0 0			9	0.00				0 0			00.00		1.00	00.00				0 (	0 0	
	NODULE WEIGHT 2	00.00			0.0	0,0	0 .	0.0		,	0	00.00	01)	0	0	0	0, 0	0	C	00.00		0	0.	0,0	. 0	0	0.
975	NODULE WEIGHT 1	000000		0		0,0		00	0.0		0.0	0.00%	+ - PROB=.			0		0	0	00.00	0	0	0	00		0	0
20 MIN. OVEMBER, 1	NODULE NUMBER 2	000000000000000000000000000000000000000		0.0		0.0		00	0.0		0.0	0.00%	+ 02 +	0	0	0.	00	0	0.	0000	0	0	0,0	्	0	0	0
- PAKIS' N - 229 N - 229 VESTED VESTED	NODULE NUMBER 1	00.00	000	0.0	0	0.0	0	c 0	0.0		0.0	0.00%	(+ - PROB	C	0	0.			0.	00.00	0	0.	0.0		0	0	0.
COUNTRY ELEVATIO LONGITUD DATE HAR	DAYS TO	111.00	000	5 C P	~ ~ .		-	~ ~			0 0	2.48% 3.67	S							000000000000000000000000000000000000000				9 1			
N 5 24.4 216 MM)	DAYS TO FLOWER	54.00	, <del>,</del> c	, G, C	o •	e -	01	° °	010	,	- 4		ATION	0	0	φ,	, .		0	0000	0	0	0,0	) [	· C	0.	0
.R. LOCKMAN DSG. 30 MIN. JULY 28, 197 LTY LOAM (KG/HA) - P URE - 435 MM	YIELD KG/HA	753.75 679.87 545.25	, 00 v	0 0 0		ພຸດ ເກ	3.6	) • 3 ) • 6	5.3		6.3 9.1	29,13%	ORFEL	0	0	- (	00	0	0	0000	0	0	00	20	0	0	00.00
E SELL											GRAND MEAN VARIETY MEAN	C OF VARIATION (*******NS)	υ	KG/HA	PLOWER	MATURITY	NUMBER 2	WRIGHT 1	WEIGHT 2	LODGING	SHATTER	HARVEST	PLANT	OF SEED		II	III
REGION - ASI SITE - LAHOR COOPERATOR - LATITUDE - 3 DATE PIANTED SOLL TYPE PERTILIZER U AMOUNT OF WO NUMBER OF IR	VARIETY OR CROSS	BOSSIER HAMPTON 266A TRACE	WILLIAMS	CALLAND	IMPROVED PELICAN	JUPITER	WOODWORTH	HARDEE	CLARK 63 SEMMES		RD ERROR OF A	COEFFICIENT OF VI SD VARIETY MEANS (****		YIELD	C.E.	DAYSTO	A MIDOON			P. ANT		STANTS	100 SPRR	OUALITY	DISEASE	DISEASE	DISSASE
	ENTRY	κνα	13.	40	\ 25 e	- v	12	3 ~	15		STANDA	SK LSD															1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				0.00	00 00	00 00	0.00	00,00	00 00	00.00	0.00	000000	000	00 00	00 0	1.00
0 0 0 0 0 0 0 0 0 0			1)	0.00	00.00	00.0	0.00	000	00.00	0.00	0.00		00.0	00.00	1.00	00.00
5 0 0 1 1 1 7			- pROB=.0	0.00	00.00	00.00	0.00	000	0.00	0.00	0.00	000	0.00	1.00	0.00	00.00
QUALITY OF SEED	m 4 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0°00 %	*05 ++	-0.28+	0.00	00.00	0.00	00.0	0.00	0.00	00.00	000	1.00	00.00	. 0	0 1
100 SEED WEIGHT	000000000000000000000000000000000000000	00.00	(+ - PROB=	00.00	00	0	0	, ,	0.	0	00		0	0	0	0 1
PODS PER 1		00.00		000	00.00		0	0 0				0 0				0.1
PLANTS I		% OO OO OO	OIL	000000000000000000000000000000000000000	0.	0.	0,0	0	0	0,0	90	0	0	0	0	0 1
SHATTER	000000000000000000000000000000000000000	0000	[2]	000000000000000000000000000000000000000	0	0	$\circ$	0	0	00.00		0	0	0	0	0 1
ENTRY VARIETY NUMBER OR CROSS	6 BOSSIER  13 TRACY 13 WILLIAMS 10 COLUMBUS 14 CALLAND 9 FORREST 4 JUPTOVED PELICAN 1 JUPTER 5 COBB 12 MODWORTH 5 HARDEE 11 CLARK 63 15 SEMMES	GRAND MEAN STANDARD ERROR OF A VARIETY MEAN COEPPICIENT OF VARIATION 5% LSD VARIETY MEANS (*******IS)	υ	YIELD KG/HA DAYS TO PLOWER DAYS TO ANTHOLOGY	ILE NUMBE	NUMBE	C PHOTAN AIDDON	T HE	LODGING	SHAT	PODS REGIONAL PROPERTY OF THE STATE OF THE S	ME	SEC	62 I	E 1	TII & & W. S. T. C.

YEAR 1975	
EXFERIMENT 471	
TABLE 119	

	LODGING	0.0	0.	00	0.	0	0.	0,0	90	0.	00.00	0	00	00		0.	, <	0	0.	0 0	20	0	0.0	9 0	0	0	0,0	000
	PLANT	w C			0,0		1.4	- 0	n m	-	11,55	. 7	4- 0	n *			क्ष ए •	٠,		<i>ب</i> د	ب د ، •		0 0	2 [	. 23	0	، ب	000 000
	NODULE WEIGHT 2	0.0	0	00	0.	0	0.	0 9	0	0.	000.00	0	00.00	00	01)	0.	9 0	0	0.	0,0	20	0.	0.0	, 0	0	0	0, 0	00.0
B 1975	NCDULE WEIGHT 1	0.0	0	0.0	0.0	0	0	0,0	0	0.	00.00		00	0 0	++ - FROB=.	0	00	0	0.	0 0	0	0.	0	, 0	0	0	0.	000
IN S	NOCULE NUMBER 2	000	0	00	0,0		0.	0,0	. 0	0.	00.00	0.	00.00	0	3=.05	0,	000	0	0.	0 0		0	0	9 0	0	0	00	000
- PAKISTA N - 184 M E - 73 DE VESTED - 1	NODULE NUMBER 1	0.0	0	0.	0,0	0	0 .	0.0	0	0.	00.00	0	0.00	000	(+ - PRCB	0.	0 0	0	0	0,0	0	0	0,0		0.0	0	0,0	00.00
CCONTRY ELEVATT LONGITU EATE HA	DAYS TC	22 0	7.0	9.0	7.5	6.5	6.0	ر ار د	0 0 0	5.0	75.00 8C.50		2.81	- * - *	N	.02	ů U		0 .	0 0		0.0	0,0	ه ۲۱ د	30	0	0,0	000
N NIST 1975 N 22.4°P 4 (254 MM)	DAYS TO FLOWER	10°0	7.0	7 • 5 6 • 5	6.5	5.0	0.6	0 9 4	0 0	7.5	26.00	.5	1.30	0 <del>*</del> 0 <del>*</del>	ATION	. 2	0 R	000	0,	0, 0	2 7	0.00	0.0	2 4	.17	0	0.0	000
G. 26 MIN. SIEES ECTAN EPTEMBER 8, Y LCAM Y ICAM TICNS - 3 (	YIELD KG/HA	45.1	14.2	80.7	40.1	76.7	76.7	73.1	34.0	79.8	272.69	C	107.95	* #	E E E	0	7 0	0	0	0, 0		0	0 9	9 0		0	0.5	
TA LEUR 31 DE - CIL D - S SAND USED EFIGA	; 											IEA	RIFTY MEAN	N N	Ų	5	MATHOTTY	C C	=	WEIGHT 1	MEIGHT Z HFIGHT	LODGING	SHATTER	N V L	9	S	H	III
REGICN - AS SITE - LYAL I ATITUDE - CCCEFATOF DATE PLANTE SOIL IYEE - FEPTLIZER NUMBER CF I	VARIETY OR CRCSS	IMPROVED PFLICAN	SIA	SEMMES	WOODWCRIH	HARDEE	JUPITER	COLUMBUS	HAMETON 266A	RACY	FORREST		F 1	VARIETY MEANS (****		YIELD	DAYS	DULE	NCDULE	NODULE	277	ì	U E	POLY PER	100 SEED	QUALITY	DISEASE	DISEASE
	ENTRY	11	7	25	12	· ~	- ;	10	0 7	00	9 77		STANE	5% LSD														9 9 9 1 5 8

PLANTS POLS PER 100 SFED QUALITY DISFASE DISEASE

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a. E E E E E E E E E E E E E E E E E E E	NDDULE NEIGHT 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	++ - PROB= 01)
. 15 MIN	NUMBER 2 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	000% 000% 000% 00000 0000 0000 0000 00
PAKISTA - 72 DE ESTED -	NUMBER 1 NODULE 0.00 0.00 0.00 0.00 0.00 0.00 0.00	* O O O O O O O O O O O O O O O O O O O
YEAR 1975  CCUNTRY -  ICNGITUDE  LAIE HARV	DAYS TO DAYS TO 98.25 106.00 94.00 95.00 95.00 95.00 97.00 97.00 97.00 97.00 97.00 97.00 97.00	8 4.75 1.88 4.75 1.88 4.00 0.00
		38.00 1.06 5.59% 3.03 1.06 0.31+ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
TN NT 975	YIELD KG/HA 1242-96 1242-96 1242-96 1023-56 926-16 926-17 926-07	158.47 158.47 158.47 1.00 1.00 0.00 0.00 0.00 0.42+ 0.42+ 0.40 0.00 0.00 0.00 0.00 0.00 0.00 0.0
- ASIA PAWALIN E - 3 D TOF - CI		GRAND MEAN  VARIETY MEAN  OF VARIATION  (*********  IELD  KG/HA  S TC MATURITY  DULE NUMBEE 1  DULE WEIGHT 1  DULE WEIGHT 2  LANT HEIGHT 2  LANT HEIGHT 2  ANTS HARVEST  PER PLANT  SEED WEIGHT 1  LOGGING  SHATTER  PER PLANT  EASE III  EASE III
TABLE J REGICN SITE - LATITUD CCOEEEA DATE PL	VAPIETY OR CROSS CALLAND FORREST HILL BRAGG CLARK 63 DAVIS HARDEE SEMMES WILLIAMS WILLIAMS BOONUS IMPROVED PELICAN TRACY HAMFICN 266A	ERRCE OF A VARS COEFFICIENT OF A IETY MEANS (**** IETY MEANS (**** NODULE NODULE NODULE NODULE PLANT PLANT PLANT PLANT PLANT DOSEBSE DISEASE DISEASE
	1	STANDARD ERRCE OF A  COEFFICIENT  LSD VARIETY MEANS  NOD  NOD  NOD  NOD  NOD  NOD  NOD  N
	NUM HEEF	N N H

460011 C m 5 m 5 M 7 4 8 7 1

68.61 65.26 65.26 65.26 67.56 67.56 67.57 80.26 63.78 63.78 63.78 63.78 63.78 64.85 64.85 64.87

LODGING

PLANT HEIGHT

1.02 0.06 12.70% \*\*\*\*\*\*\*

56. C0 4.46 15.93% 12.75

0.45+ 0.58+ 0.60+ 0.00+ 0.00+ 0.00+ 0.12+ 0.12+ 0.12+ 0.12+ 0.12+ 0.12+ 0.00+

YEAR 1975

4.1

EXFERIMENT

YEAR 1975
NT 348
EXFERIME
121
TABLE

		DGING	0	0	0		0	0	0,0	. 0	0	3.00	C	00	00.00%		9	.77	7.	2 0	0	0.	-	۰ ۳	.27	-	0.0	. 0	0.00	0 1
		PLANT HEIGHT LO	1.2	) · · · · · · · · · · · · · · · · · · ·	0.0	ر م م	7.2	2.5	3.7	100	0.9	89.50	C	1.1	2.89% 3.26		-0.70++	2	94	200	00.00	0	000	310	70	-	0 4	000	00.00	ا د
		NODULE WEIGHT 2	0,0	0	0.0	90	0.	0.	0,0	0	0	00.00	c c	00.00	00.00	01)	0	0	0,0	9 0	0	0.	0	20	0	0	<u>،</u> د	. 0	00.0	2
βQ	75	NODULE WEIGHT 1	00	00	0	0	0	0	00	0	0	00.00	0	0000	%00°0	+ - PROB=.	0	0	0	0	0	0	00		0	0	000	0	00.00	00.00
. 21 MIN.	CTOBER, 19	NODULE NUMBER 2		0.6								00.00	0	00.00	% 00°0 0°00	±.05 +	8			* 1			8	8 8			9	0 0	0.00	0
PAKISTAN - 895 M - 72 DEG	WESTED - O	NODULE NUMBER 1	00	0	0.0	0	0	0.	0 0	0	0	00.00	0	00.00	% 00°0	(+ - PROB=	0	0	0	0	0	0	0 0	0	0	0	0	0	00.00	> 1
CCUNTRY - ELEVATION LONGITUDE	DATE HARI	DAYS TO	1-0	1:0	1.0	3.0	1.0	2.0	2.0	3.0	1.0	142.00		0	C. 50% O. 88				000							- 0			00.00	0 )
~	7 P P	DAYS TO FLOWER	5.0	5.7	6.5	6.5	2.7	8 5	7.0	8.7	8.7	73.00	54.46	0	2.69%	TIONS		00.				00		. 59	. 20		. 1		0000	0 8
10.0	SEL BADSHAR CLAY LCAM, PH 7.5 CLAY LCAM, PH 7.5 SED (KG/HA) - N 69 ISTURE - 368 HM FIGATIONS - 6 ARIETY - LEE 68	YIELE KG/HA	3578.97	(2)	- 0		an .	~ •	$= \infty$	00	63	1889.82 1511.83	9	125.00	9.03% 357.25	CRRELA		69.	• 6 3 •	) 2		000		0.51	9	9	-0-35+		000	2
SHAT DE 34 DE	DATE PLANTED - JI SOIL TYPE - CLAY PERTILIZER USED AMOUNT OF POISTUR NUMBER OF PIESTURES	# # # # # # # # # # # # # # # # # # #											GRAND MFAN		COF VARIATION (*********)	C	KG/HA	PLOWER	MATURITY NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	LODGING	SHATIER	HARVEST	PLANT	OF SEFD		111	777
REGION - ASI SITE - SWAT LATITUDE - 3	DATE PLANTED DATE PLANTED SOIL TYPE — FERTILIZER UI AMOUNT OF HO NUMBER CF HO SUBSTITUTE V	VARIETY OR CROSS	WILLIAMS LEE 68	CLARK 63	DAVIS	COBB	TRACY	COLUMBUS	HAMPTON 266A	-	BOSSIER	HARDEE IMPROVED PELICAN	85	STANDARD ERROF OF A VARIETY	COEFFICIENT OF V.		YIELD	TO	DATS TO		ODULE		FLANI		PLANTS	PODS PER	OUALITY	DISEASE	DISEASE	
		ENTRY	12	10	11	7	7	و ژ	<u>-</u>	89	S)	7 E		STANDA	5% LSD VI															1 1 1 1 1 1

YEAR 1975

EXPERIMENT 348

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	000000000000000000000000000000000000000
	- PROB = .01)
OF SEED 2.00 1.00 1.00 1.00 2.00 2.00 2.00 2.00 2.00 2.00 3.00 3.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 0.0	ROB=.05 -0.35++ 0.22 0.02 0.00 0.00 0.00 0.00 0.25 0.09 0.09 0.09 0.00
# E I GHT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	+ PROB
PODS PER 55.25 65.25 65.25 145.00 48.25 35.75 63.50 64.50 74.00 53.75 53.75 8.48	000000000000000000000000000000000000000
PLANTS HARVEST 98.50 130.25 75.25 148.75 69.00 127.25 127.25 1104.25 104.75 113.68 7.80	T I O N - 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SHATTER 3.00 2.75 2.75 3.00 1.75 3.00 1.00 2.25 2.00 2.00 2.32 0.21 0.21 0.21	C B B E L L C C C C C C C C C C C C C C C C C
AN GRAND MEAN RIETY MEAN VARIATION ****=NS)	RG/BA PLOWER NATURITY NUMBER 1 NUMBER 1 NUMBER 2 WEIGHT 2 MEIGHT 2 LODGING SHATTER HARVEST PLANT WEIGHT OF SEED III
ENTRY VARIETY  NUMBER OR CECSS  12 WILLIAMS  14 EE 68  10 CLARK 63  6 DAVIS  11 WOODWCRTH  4 COBB  7 TRACY  9 COLUMBUS  13 CALLAND  1 HAMPTCN 266A  8 BOSSIER  BOSSIER  5 HARDE  2 HARDE  3 INPROVED PELICAN  GRAND  STANCARD ERROE OF A VARIETY  COEPFICIENT OF VARIETY  5% LSD VARIETY HEANS (********	YIELD DAYS TO NODULE NODULE NODULE NODULE PLANT PODS PER 100 SEED DISEASE DISEASE DISEASE
ENTRY NUMBER 112 114 4 4 4 4 4 4 4 5 5 5 5 5 5 8 LSD V	

YEAR
991
EXFERIMENT
TABLE 122

1975

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ro.	NODULE WEIGHT 1	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00 0	00.00	00.00	00 0
38 MIN OBER,	NOEULE NUMBER 2	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
PAKISTA - 19 M - 63 DE HAMEE ESTED -	NCDULE NUMBER 1	0.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00-0	00 0	00.00	00 0	00.0	00 00	00-0
CCUNTRY ELEVATI LONGITU EEL, V.N. DATE HA	DAYS IC MATULITY	00.06	90.25	91.00	90°20	89.25	85,75	90.00	90.25	87.75	90.25	88.75	90.75	87.25	79.50	79.50
M.A. JA	STO	10	30.00	27.75	28.50	27.75	30.00	27.75	28.25	28.00	28.00	27.25	27.50	28.25	26.50	28.25
EGICN - ASIA ATITUDE - 25 DEG. 2 MIN. N COPERATORS - A.F. CHAUDHRY, ATE ELANTED - JULY 18, 1975 OLI TYPE - SANDY LCAM UMBER CF IRFIGATIONS - 4 CCAL VARIETY - LPFFA	YIEI KG/H	1541.97	1521,14	1437.79	1062.71	896.01	791.82	729.31	708.47	0.8°	541.77	520.94	479.26	354,24	312,56	208.37
FEGICATITE  SATE  CCOPE  SOIT  FERTIN  NUMBEE  LCCAL	RIF	CALLAND	FORREST	COLUMBUS	CLARK 63	WOODWCRIH	LAPPA	and a	AMSOY 71	WELLS	BEESCA	HARK	CORSCY	HODGSCN	SWIFT	ALTONA

ENTRY

445.03 28.68 339.45 330.20 330.20 330.20 225.18 226.18 226.68 226.68 227.70 23.69 24.43

LODGING

PLANT HEIGHT

0.00	800-0	00.0		00.0	00 0	0.00	0.00	00.0	00.00	00.00	00.00	1.00	0.00	00 00	00.0	00.00	00.0	00.00	00.0	00.00
29.42	18.72%	/ e @ /		0.69++	0.03	0.07	00 00	00.0	00 00	00 00	1.00	00.00	00 00	0.33++	0.70++	-0.16	-0.26+	00.00	00 00	00 00
00.00	%00°0	0	<u>-</u>	00.0	00.0	00.00	00.00	00.00	00.00	1.00	00.0	00.00	00.00	00.0	00.0	00.00	00.0	00.0	00.0	00.00
0.00	%00-0	0.00	- PROB=.01	00.00	00.00	00.00	00.00	00.00	1.00	00.00	00.00	00.00	00.00	00.0	00.00	00.00	00.00	00.0	00.00	00.00
0.00	%00°0		++ 50	00.00	00.00	00.00	00.00	1.00	00.00	00.00	00.00	0.00	00.00	00.00	00.00	0.00	00.00	00.00	00 0	0.00
0.00	0.00%		+ - PROE=.	00.00	00.00	00.00	1.00	00.00	00.00	0.00	00.00	0.00	00.00	0.00	00.00	00.0	0.00	0.00	00"0	0.00
88.05	2.29 kg	60 07	•	0.31+	0.14	1.00	00 • 0	00.0	00.00	00°0	C • 0 2	00.00	00.00	-0.18	0.38++	0.12	-0.21	00.0	00°0	00.0
28.08	2.85%	÷ •	TIONS	90.0	1.00	0.14	00.00	00.0	00.00	00.0	0.03	00.00	00.0	00.00	0.11	-0.42++	0.17	00.00	00.0	00.0
787.66	39.77%		RRFIA	1.00	90.0	0.31+	00.00	00.00	00.0	00.0	++59 *0	00.00	00.00	0.53++	0.82++	-0.36++	-0.14	00.0	00.00	00.0
ND MEAN	F VARIATION	<u> </u>	0 0	KG/HA	FLOWER	MATURITY	NUMBEE 1	NUMBEE 2	EIGHI	RIGHT 2	HEIGHT	LCDGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	Н	· II	III
GRAI VEAFD ERRCR OF A VARIE	COEFFICIENT OF VARIATION UARTETY MERNS (********	CNUPH TOTAL		YIELD	DAYS TC	DAYS TO M	NODULE	NODULE N	NODULE W	NCDULE W	PLANT			PLANTS	POLS PER	100 SEED	QUALITY		U.	DISEASE

TSD

 			000000000000000000000000000000000000000
			000000000000000000000000000000000000000
			- PROB=_01
QUALITY OF SEED	2.50 2.50 2.50 2.50 2.50 2.50 2.50 2.50	2.63 0.24 18.06% 0.69	050 -0.14 -0.21 -0.02 -0.00 -0.00 -0.00 -0.15 -0.15 -0.15
00 SEED WEIGHT	15.88 11.33 15.53 15.73 16.73 16.18 15.30 15.30 15.85 17.85 17.85	15.39 0.46 6.02% 1.32	(+ - PROE=- -0.36+ -0.12 0.00 0.00 0.00 -0.16 -0.36+ -0.36+ -0.20 -0.00 0.00 0.00
CES PER 1	333.78 38.97 38.97 38.97 32.73 22.73 22.73 20.40 20.40 16.08 14.40 14.40	24.17 3.14 26.03% 8.99	0.82++ 0.11+ 0.38++ 0.00 0.00 0.00 0.70+ 0.00 0.36++ 1.00 0.00 0.00 0.00 0.00 0.00
PLANTS P	93.00 77.50 64.75 58.25 76.50 69.00 71.75 51.25 71.25 71.75	69.10 10.95 31.70% *****	0.53 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SHATTER	000000000000000000000000000000000000000	0000	M 000000000000000000000000000000000000
		MEAN REAN ATICN *= NS)	KG/HA FICKER MATURITY NUMBER 1 NUMBER 1 NUMBER 1 NUMBER 2 NUMBER 1 NEIGHT 2 EEGHT 2 SHATTER HARVEST PELGHT OF SEED III
VARIETY OR CRCSS	CALLAND FORREST COLUMBUS CLARK 63 WOODWORTH LAPPA WILLIAMS WILLIAMS WILLIAMS WELLS WELLS WELLS WELLS WELLS BEESCN HARK CORSCY HODGSCN SWIFT	GRAND STANLAED ERROF OF A VARIETY COEFFICIENT OF VARI. LSD VARIETY MEANS (*******	YIELD DAYS TO DAYS TO DAYS TO NODULE NO NODULE NO NODULE NO PLANT PLANTS PLANTS OUALITY DISEASE DISEASE DISEASE
ENTRY	\$ 6 0 1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	STANE 5% LSD	

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COUNTRY - PAKISTAN ELEVATION - 19 M TONGTHUP - 63 DPG 38 MIN. P	- OCTOBER, 19	P 83.0
REGION - ASIA SITE - TANDOJAH ************************************	COOPERATIONS - A H. CHAUDER, M.A. JALEEL, V.N. AHAMED DATE PLANTED - JULY 19, 1975  DATE PLANTED - JULY 19, 1975	SOIL TYPE - SANDY LOAM PERTILIZER USED (KG/HA) - N 61.0, P 83.0 NUMBER CF IRRIGATIONS - 4 SUBSTITUTE VARIETY - HAMPTON 266

LODGING	000000000000000000000000000000000000000	
PLANT HEIGHT	39.23 54.88 38.53 38.53 32.18 55.90 70.45 49.95 49.95 44.85 10.15	52.11 12.34 % 0.00 0.
NODULE WEIGHT 2		
NODULE WEIGHT 1		+ PROB - 00000000000000000000000000000000000
NODULE NUMBER 2	000000000000000000000000000000000000000	**************************************
NODULE NUMBER 1	000000000000000000000000000000000000000	+ + + + + + + + + + + + + + + + + + +
DAYS TO	102.25 106.00 91.00 91.00 91.00 99.25 89.25 89.25 91.00 86.00	S 3.17 %
DAYS TO FLOWER	### ### ### ### ### ### ### ### ### ##	35.033 0.0000 0.00
YIELD KG/HA	2688.04 2625.52 2437.99 2312.96 2229.61 2200.40 1958.72 1937.89 1977.19 1777.19 1687.84	2047.63 198.94% 561.66 1.00 0.00 0.00 0.00 0.00 0.00 0.00
1 1 1 1 1 1 1		GRAND MEAN VARIETY MEAN OF VARIATION (************  IELD KG/HA S TO PATURITY DULE NUMBER 1 DULE WEIGHT 1 DULE WEIGHT 1 LANT HEIGHT 2 LANT HEIGHT 2 LANT HEIGHT 1 LOGGING SHATER PER PLANT LOGGING SHATER LITT OF SEED LITT OF
VARIETY OR CROSS	HAMPTON 266A COBB BOSSIER FORREST COLUMBUS HARDEE CALLAND HAMPTON 266 CLARK 63 CLARK 63 TLIACY WILLIAMS JUPITER WOODWORTH DAVIS	STANCARD ERROR OF A VARIETY MEA  COEFFICIENT OF VARIATIO  LSD VARIETY MEANS (********= NS  YIELD PAYS TO MTURITY NODULE WIGHT NODULE WEIGHT DEANTS HARVES DISEASE DISEASE INTERNATION SEED DISEASE INTERNATION
ENTRY	22 2 2 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	STANDAR LSD VA

1 1 1													
1 1 1 1 1		6	000	00 00	0.00	00-0	00.00	00.00	00 00	00.00	00.00	00.00	0.00
1 1 1 1 2 0 1 1 1 1 1		01)	000.00	00000	00.0	00.00	000	00.00	00.00	0000	00 0	0.00	00.0
		1 8 0 1 8 0	000	00.00	00.00	0.00	00000	0.00	0000	00.00	00.0	1.00	000
QUALITY OF SEED	1.25 2.75 1.25 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.5	. 05	0.13	0.00	00.00	00-0	0.00	00.0	0.03	++0+0-0-	1.00	0000	00000
100 SEED WEIGHT	13.55 13.20 11.65 11.65 11.65 11.65 11.65 11.93 13.69 13.69	(+ - PROB=	++ ## 0-	00.0	$\circ$	00	÷ 0	00	20		- P 4	2	7 00
PODS PER PLANT	37. 28 40. 63 39. 05 39. 05 31. 48 35. 90 66. 75 66. 75 66. 75 66. 75 66. 75 67. 10 88 45. 10 7. 28 88 45. 40 66. 34 7. 28 88 45. 40 67. 10 88 45. 40 67. 40 88 45. 40 67. 40 88 45. 40 67. 40		0.22	00.00	00.00	0.00	00.00	0.00	1.00	-0.08.	0.23		000
PLANTS HARVEST	58.75 62.00 662.00 662.00 663.75 633.75 633.75 633.75 633.75 633.75 633.75 633.75 633.75 633.75 633.75 633.75 633.75 633.75 633.86 633.75 633.86 633.	I O N	-0.24	00.	00.0	0.00	00.0	00.00	-0.05	-0.03	-0.03	00.0	00000
SHATTER		E I	00.00	00.00	000	00.0	00.0	1.00	0000	00.00	00.00	00.0	00.00
	AND BEAN BEAN BEAN BEAN BEAN BEAN BEAN BEAN	C C KG/HA	FLOWER	UMBER	IGHT	WEIGHT 2 HEIGHT	LODGING	SHATTER	PLANT	WEIGHT	OF SEED	TI	III
VARIETY OP CROSS	HAMPTON 266A COBR BOSSIER FOREST COLUMBUS HARDEE CALLAND CLARK 63 TRACY WILLIAMS JUPITER WOODWORTH DAVIS IMPROVED PELICAN GRAND RD ERROR OF A VARIETY COEFFICIENT OF VARIA	>→	DAYS TO			NODULE		S-FN & TO	PODS PER	100 SEED	DISTRICT	DISEASE	DISEASE
ENTRY	2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6												

197	
TEAR	
11917	
EXPERIMENT	
124	
TABLE	

COUNTRY - PHILIPPINES ELEVATION - 74 M LONGITUDE - 122 DEG. 59 MIN. E	RE STATION DATE HARVESTED - OCTOBER, 1975	
COUNTRY - 1 ELEVATION - 1 LONGITUDE -	D TRAINING STATION DATE HARVE:	0, P 45.0, K 45.0
REGION - ASIA SITE - LA CARLOTA LATITUDE - 10 DEG. 24 MIN. N	COOPERATOR - UPLBCA RESERRCH AND TRAINING STATION DATE PLANTED - JULY 2, 1975	SOLL TIPE - CLAY PERTILIZER USED (RG/HA) - N 45.0, P 45.0, K 45.0 ANOUNT OF MOISTURE - 112623 HB

LODGING	1.25		1.13 0.15 26.66% ******	-0.07 -0.27 -0.02 -0.03 -0.03 -0.04 -0.04 -0.04
PLANT	47.75 36.25 49.75 44.00	32.50 40.00 40.00 29.25 32.00 80.00 43.25 35.00	44.57 2.06 9.23% 5.88	-0. 10 -0. 57 -0. 55 -0. 57 -0. 57 -0. 50 -0. 00 -0. 12 -0. 57 -0. 38 -0. 57 -0. 50 -0. 24 -0. 50 -0. 38 -0. 26 -0. 27 -0. 20 -0. 20
NODULE WEIGHT 2	000000000000000000000000000000000000000	000000000	0.00 0.00 0.00 <b>%</b> 0.00	000000000000000000000000000000000000000
NODULE WEIGHT 1	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0.00 0.00 0.00% 0.00 0.00	
NODULE NUMBER 2	16.00 39.50 37.75 35.25 30.75	23.00 17.00 21.50 48.00 18.75 26.00 23.75 40.50	28.62 7.95 55.55% *******	0.14 -0.03 0.07 -0.09 -0.09 -0.23 -0.22 -0.22 -0.22 -0.17
NOBER 1	10.50 13.50 14.25 11.00	14.00 12.00 11.00 7.75 4.00 11.50	9.75 3.40 69.84% ************************************	0.34 1.00 1.00 1.00 0.00 0.00 0.00 0.00 0.0
DAYS TO	83.00 96.00 89.00 89.00 89.00	89.00 89.00 89.00 89.00 89.00 96.00 104.00	91.00 0.00 0.00% 0.00%	-0.23 -0.95+ -0.21 -0.21 -0.02 -0.00 -0.00 -0.08 -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.43+ -0.45+ -0.45+ -0.45+ -0.45+ -0.60+ -0.00
DAYS TO PLOWER B	30.00 30.00 30.00 30.00	30.00 30.00 30.00 30.00 37.00 37.00	32.40 0.00 0.00 0.00 T I O N S	-0.15 -0.95 -0.22 -0.03 -0.00 0.00 -0.05 -0.05 -0.06 -
TIBLD KG/HA	1021.45 929.35 888.09 846.00 798.91	780.99 779.32 753.90 705.97 695.14 685.97 621.37 580.12	769.07 98.33 25.578 *******	100 15 10 10 10 10 10 10 10 10 10 10 10 10 10
		ė	GRAND MEAN A VARIETY MEAN T OF VARIATION (*********C	RG/HA PLOWER MATURITY WUMBER 1 WUMBER 1 WUMBER 2 WEIGHT 1 WEIGHT 1 WEIGHT 1 WEIGHT 1 WEIGHT 1 WEIGHT 0 FIANT
VARIETY OR CROSS	WOODWORTH HARDER CALLAND COLUMBUS WILLIAMS COBB	TRACT DAVIS PORTEST BOSSIER SEMNES IMPROVED PELICAN CLARK 63 HAMPTON 266A	GR STANDABD ERROR OF A VARI COEFFICIENT OF V LSD VARIETY MEANS (****	YIELD DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANT PLANT PODS PER 100 SEED QUESTEED DISEASE
RETRY	12 14 12 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	8 7 6 9 5 4 1 7 7 1	STANE 5% LSD	

YEAR 1975

EXPERIMENT 464

LODGING	000000000000000000000000000000000000000	1.63 0.21 0.60 0.60	00000000000000000000000000000000000000
DLA LT H RICH THE THE THE THE THE THE THE THE THE TH	88 85 00 00 00 00 00 00 00 00 00 00 00 00 00	58.37 30.14 8.99 8.99	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
NODULE NOTICE		0.00	
TS NODULE		0.00 0.00 0.00% 0.00 + - PRO3=.	
CES-16-17	242.50 323.3.75 2142.50 2245.75 2247.50 1710.50 1710.50 1710.50 1710.75 1710.7	131.74 35.67 54.15% 101.95	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
A - 74 M B - 122 DE N ESTED - 0 FAINUNG 4.	225.25 201.25 100.25 100.25 100.25 176.50 71.75 110.75 19.25 19.25 19.25 15.50	92.49 29.72 64.27% 84.95 (+ - PROB=	0.50 0.54 0.63 0.63 0.03 0.33 0.33 0.50 0.00 0.00
ELEVATIO LONGITUD ING STATI DATE HAR OO, K 45. NG E-32.	107-00 107-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00 91-00	80000 0000 0000 0000	0.056 ++ 1.00 0.056 ++ 1.00 0.00 0.066 ++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
AND TRAIN 45.0° P 45 MM CAOHSIU 5, ORBA 10.0° KAOHSIU 10.0° PAOPE	20000000000000000000000000000000000000	36.35 0.00 0.00% 0.00 T I O N S	0.047 1.00 0.554 0.056 0.056 0.057 0
. 24 MIN. N CA RESEARCH LY 7, 1975 KG/HA) - N E - 102057 Y - LINCOLN MULTIVAR S.J.1, TK-	85 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1255.67 120.52 19.20% 344.45	1,00 0,67 0,00 0,00 0,00 0,00 0,00 0,00 0
CARLOTA 10 DEG 1		GRAND MEAN VARIETY MEAN OF VARIATION (*********	KG/HA FLOWER NUMBER 1 WEIGHT 2 WEIGHT 2 WEIGHT 2 SHATTER HARVEST WEIGHT OF SEED
STTE - LA  LATITUDE -  LATITUDE -  LATITUDE -  LATITUDE -  LATITUDE -  SOIL TYPE -  SOIL TYPE -  SUBSTITUTE -  VARIETY -  OP CROSS	CACC OHSIG BA BA ARK 6 1-5 ILTIVA ILTIV	RD ERROR OF A COEFFICIENT ARIETY MEANS	VIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANTS PODS PER 100 SEED 001 SEEASE DISEASE
Y SE WIN	111 16 10 10 10 10 10 10 10 10 10 10 10 10 10	STANDA 5% LSD V	

9 9 8 8 8 8 8 8 8																			00 00	00 0	00 00	00 0	00.00	00.00	00.00	00 0	00.00	00 00	00.00	000		00.00	00-0	1.00
																		1)	00-0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	0.00	00.00	00.00	0000		00.0	1.00	00.0
0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																		- PROB= 0	00.00	00.00	0.00	0.00	00.00	00.0	00.00	0.00	0.00	0000	0000	00.00	00.00	1.00	00.00	
QUALITY OF SEED	3.50	1.00	2.25	2.50	2.50	1.00	7 · 50	4.50	3.00	2.50	3.00	3.00	3.00	2.69	0.30	22.27%	00.0	• 05 ++	-0.00	-0.02	0.01	-0.17	-0.19	00.00	0.00	-0.20	0.00	10.07	10.01	-0.01	1.00	00.00	00.00	00.00
1四五 (	15.00 14.50 15.25	15,75	17.00	17.75	$\alpha$	14.75	ΟĽ	16.50	16,50	11.50	15,75	15.00	15.50	15.90	0.87	10.95%	C + • 7	(+ - PROB=.	0.05	-0.10	-0.08	00.00	-0.03	0.00	00.00	10.04	00.00	70.0	-0.13	1=00	-0.01	0.00	00°0	00.00
PODS PER 1	44.25 50.50 35.25	31.50	25.25	20.25	26.75	31.75	18.75	16.50	13.50	20.00	15,75	17.25	18.50	25.74	2.79	21.65%			0.73++	0.67++	0.81++	0.50++	0.55++	0.00	00.00	0.70++	** 00 ° 0	-0-04	1.00	-0.13	-0.05	00.00	00 0	00.00
SE	186.75 181.25 148.50	199.25	190.50	188.75	163.00	106.00	187.75	163.00	196.00	191.25	193,25	143,25	123.25	3	9	18.50%	)	TIONS	0.32++	-0-14	-0.04	0.12	0:05	00.00	00.0	0.20	4900	1.00	-0-07	0.03	-0.07	00.00	00.00	00.00
SHATTER		1.00	1.00	1.00	.00	000	1.00	1.00	1.00	1.00			1.00	1.04	0.06	11.61%		RRELA	-	0	40.	0.33++	0.19	0.00		0.32++	000	0.26+	70					0.00
														AND MEAN	STY MEAN	ARIATION		O	KG/HA	FLOWER	MTORITY	22 (	UMBER 2		HETCHT	LODGING	SHATTER	HAPVEST		WEIG	S	I	II	III
VARIETY OR CROSS KAOHSTUNG F-32	K 63	TK-5 TAINING U			C 1 1	LINCOLN	SWIFT	CALLAND	BEESON	FORREST	1	AMSOY 71	WILLIAMS	35	JAKD ERROR OF A VARI	(***)			MIELD	10	FOR STAGE		N STODON N STODON	K J	6			PLANTS				DISEASE	S	DISEASE
ENTRY NUMBER	11	9 8	10	<b>-</b> 3	12	ž w	2	71	_ (	, r	<u>_</u>	د ژ	<u>-</u>	:	STANI	5% LSD																		

YEAR 1975	
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EXPERIMENT	
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TABLE	

PINES DEG. 15 MIN. E	OCTOBER, 1975	
CCONTRY - PHILIPPINES ELEVATION - 15 M LONGITUDE - 121 DEG, 15 MIN. E	. MATIAS DATE HARVESTED - OCTOBER, 1975	0, P 56.0, K 56.0
REGION - ASIA SITE - LOS BANOS LATITUDE - 14 DEG. 10 MIN. N	COOPERATORS - B.M. LEGASPI, R.R. MATIAS DATE PLANTED - JUNE 26, 1975	SOIL TYPE - CLAY, PH 5.9 FERTILIZER USED (KG/HA) - N 56.0, P 56.0, K 56.0 AMOUNT CF MOISTURE - 2290 MM LOCAL VARIETIES - L-114, TK-5

ENTRY	VARIETY OR CROSS		YIELD KG/HA	DAYS TO FLOWER	DAYS TO MATURITY	NODULE NUMBER 1	NODULE NUMBER 2	NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT	LODGING
12	WOODWORTH		3098.16	27.00	90.00	V (	226.00	0.12	1.16	70.75	1.00
13 n	WILLIAMS		3095.24	27.00	102 00	163.75	329.00	0.15	L/ • L	80.25	00.1
11	CLARK 63		2837.11	27.00	93.00		212,25	60.0	1.48	72.25	1.25
· cc			2673.83	27.00	96.00		00.604	0.20	2.67	49.25	1.00
10	COLUMBUS		2650.32	27.00	94.50	***	329.50	0.09	1.69	65, 25	1.00
6	FORREST		2347,18	33.00	93.00		347.25	0.52	1.96	53.00	1.25
7	DAVIS		2342.72	33.00	00 *96		314.75	0.57	1.81	20.00	1.00
٣	HARDEE		2229.74	00 0 0 7	102.00	314.00	652.00	0.80	3.82	60.50	1.00
9	BOSSIER		2196.23	28.50	97.50	121.25	319.50	0.19	1.26	37.75	1.00
77	IMPROVED PELICAN		2175.23	00.04	105.00	304.75	434.75	0.81	2.42	118.75	2.00
14			2105.96	24.00	114.75	458,75	738.75	2.46	8.23	84.25	2.00
2	HAMPTON 266A		2	33.00	00.96	221.00	416.75	0.54	1.57	53.00	1.00
15	TK-5		1702.42	00.04	90.00	304.25	483.75	1.64	7 7 7	64.00	2.00
-	JUPITER		<u>۱</u>	24.00	113,50	176.50	327.50	76 0	1.96	87.00	2.00
	CIN & R.D.	MEAN	2377.93	34.90	6	207.77	39 2, 12	0.64	2.51	67,33	
STANDA	STANDARD ERROR OF A VARIETY	MEAN	127.67	0.39	0		83.76			3.34	
		ATION	10.74%	2.22%	-		42.72%	J		9.92%	
5% LSD V		*=NS)	364.91	1.11	2. 68	99.02	239.41	07 0	1.57	9.54	0.26
		U	ORREL	ATION	ಬ	(+ - PROB	B=. 05	++ - PROB=.	.01)		
	VIELD	KG /HA	1,00	,	1	+ -0-26+	'	++ ## -0 -	+ -0-24	-0.06	'
		FLOWER	-0.68++		0	C					
	act act	MATURITY	++ ## 0-	0.82++		0.47++	+ 0.35++	+ 0.55++	++ + + + + + + + + + + + + + + + + + + +		+ 0.52++
		NUMBER 1	-0.26+								
	NODULE NUM	NUMBER 2	-0.26+								
	NODRIE WEI	WEIGHT 1	++ ## 0-								
	NODGIE WEI	WEIGHT 2	-0.24								0.45++
	PLANT H	HEIGHT	90.0-								
	LO	LODGING	-0.59++								
		SHATTER	00 00								
		HARVEST	0.54++	-0.60+		•		•	*		1
		PLANT	-0.52++	+91-0							
		WEIGHT	0.53++	-0.56+		,		1	,		1
	QUALITY OF	SEED	0.25+	-0.23		-0.35++	+ -0-17	-0.34++	+ -0.26+	-0.13	1
	DISEASE	<b>⊣</b>	-0-25	70.0							
	DISKASE	11	000	00.0	00.0						0000
			- 1		į						

																					0.00	0 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00 0	00.00
																				1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	00-0	0
																				- PROB=.01		0		. 2	0.	-	0	2	77	0	. 2	2	0.39	-27	1.00	0
QUALITY OF SEED	2.50	2.00	1.75	1,50	1.75	1-00	1.25	1.00	1.25	2.00	1.00	1.00	1.50	1, 25	2.00	1.52	0.19	25.26%	0.55	* 05 ++		0	-0.17	0	0.	0.34	0	-	.2	0		, 33	77		-	
00 SEED WEIGHT	œ	7	7.	7	19.08	7	8	77	15.50	16,35	10.48	14,30	15,88	14.08	13.80	7.	8	10.50%	۳.	(+ - PROB=	53	56	-0.41++	0.32	0.1	<b>=</b>	Ö	38	5	00.00	0.24	-0.62++	1.00	++ + + + 0	-0,39++	00.00
ODS PER 1	35, 63	2	8	8	3	7	-	-0	~	-	7	3	20	6	-	55.91	3.76	9	0		. 52	7 .		, 64	, l		. 54	.53	9.	0.	4.	0	9 .	3	0.23	0.
PLANTS P HARVEST	146.75	138.50	3	124.00	133.50	120.25	138.50	142.00	130.00	136.75	128,50	89.75	133,50	98.50	101,25	126.15	. 12	11.29%	20.35	TIONS	, 54	9 0	0.45	77 0	0.4	0.59	649	0.25	0.5	0.	0.		.2	. 2	-0.24	0.
SHATTER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		1.00	1.00	.00	0.	0	ORRELA	0	0	0	0	0	$\bigcirc$	0	0	0	0	0	0	0	0	00 0	0
																AND MEAN	ETY MEAN	$\alpha$	* *	υ	KG/HA	FLOWER	MATURITY	BE	NUMBER 2	H	9H	HEI	LODGING	HAT	ARV	PIANT	日日第	OF SEED	H	II
VARIETY OR CROSS	WOODWORTH	WILLIAMS		CLARK 63	TRACY	COLUMBUS	FORREST	DAVIS	HARDEE	BOSSIER	IMPROVED PELICAN	L-114	HAMPTON 266A	TK-5	JUPITER		RD ERROR OF A	E	VARIETY MEANS (****		YIELD		gen		NODRIE		Ď.	PLANT			PLANTS	PODS PER	100 SEED		DISEASE	EA
ENTRY	12	2	2	-	Φ	10	6	7	٣	y	Ħ	14	2	15	_	6	STANDA		5% LSD V																	

EXPERIMENT 429 YEAR 1975 (CONTINUED)

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YEAR 1975

CCOUNTRY - SRI LANKA ELEVATION - 266 M LONGITUDE - 80 DEG. E

SITE - ALUTHARAMA

DATE HARVESTED - AUGUST, 1975

P 26.2, K 33.3 LATITUDE - 7 DEG. N
COOPERATOR - 5.M. SANTHIRASIVAM
DATE PLANTED - MAY 19, 1975
SOIL TYPE - SANDY LOAM, PH 6.6
AMOUNT OF MOISTURE - 337 MM

LOCAL VARIETIES - PB-1, S.J.2 SUBSTITUTE VARIETIES - BRAGG, HILL, BONUS NUMBER OF IRRIGATIONS - 10

PLANT

NODULE

NODULE

NODULE

NODULE

DAYS TO

DAYS TO

YIELD

VARIETY

ENTRY

NUMBER	OR CROSS	KG/BA	PLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LODGING
2	HAMPTON 266A	2100.47	31.50	97.25	123.50	184.75	0.23	0.77	22,78	00.00
15	5.1.2	2071.86	37.75	98,50	73.50	125.25	0.08	0.38	54.43	00 00
<b>6</b> 0	HARDEE	2048,30	35.25	97.50	195.50	216.50	0.26	0.89	27,78	00.00
9	BRAGG	2004.11	30,75	92, 25	54.75	132.50	0.06	0.61	25, 35	0000
7	DAVIS	1876.45	32.25	96.00	93.75	181.50	0.16	0.84	20.78	0.00
6	PORREST	1766.44	30.50	92.50	72.25	139.50	90.0	0.62	25.60	00.00
13	WILLIAMS	1707,39	25.00	92,25	86.00	125.00	0.06	0.71	34.90	00.00
17	IMPROVED PELICAN	1650.53	37.25	100.50	101.25	108,25	0.08	0.53	76.02	00.00
S	BOSSIER	1587,78	38,25	102,75	105,25	143.75	0.11	0.52	31,00	00.00
14	PB-1	1479.46	36.75	93.00	130.00	167,50	0.15	0.72	35, 35	00.00
12	BONUS	1458,62	26.00	93.75	156.75	127.00	0.08	0.74	30,93	00.0
œ	TRACY	1427.57	27.25	87.00	99,25	169.25	0.14	0.66	21.75	00.00
11	CLARK 63	1421,34	32.25	88.75	89,25	133,25	0.13	0.74	36,28	00.0
10	HILL	1416.50	33.00	87,25	93.50	168.25	0.08	0.74	23, 25	00.00
¢	JUPITER	979,36	00.64	112.50	73.00	108.75	0.09	0.44	51.68	00.00
	GRAND MEAN	1666.41	33,52						34.52	00.00
STANDAR	STANDARD ERROR OF A VARIETY MEAN	124.47	0.51		21.97	27.05	0.06	0.12	2.01	00.00
	CORFFICIENT OF VARIATION	14.94%	3.02%				,		11.63%	0.00
S% LSD VA	VARIETY MEANS (******=NS)	355,24	1.45	3.11		*	*	* *	5.73	00.00
	ũ	ORREL	ATION	S	(+ - PROB=	B=.05	++ - PROB=,	.01)		
	YIELD KG/HA	1.00	-0.24		0.17	0.11	0.13	0.20	-0.06	
	DAYS TO PLOWER	-0.24	1.00	0.77+	-0.10				0.50++	00.00
	DAYS TO MATURITY	-0.07	0.77+		0.03				0.49++	
	O.N.	0.17	-0.10		1.00				-0.01	
	N	0.11	-0.12		0.39+				-0.32+	
	NODUL WEIGHT 1	0.13	0.01		+ 11 10				-0.10	

-0.29 -0.10 -0.10 -0.20 -0.20 -0.22 00.50 00.30 00.30 00.00 00.00 00.00 0.49 0.00 0.00 0.29 0.39 0.00 0.00 -0.25 0.00 0.32 -0.44 -0.43 0.32 0.00 -0.20 -0.34 -0.12 -0.12 -0.20 -0.20 NODULE WFIGHT 2
PLANT HEIGHT
LODGING
SHATTER
PLANTS HARVEST
ODS PER PLANT
QUALITY OF SEED

-0.24 1.60 0.52+ 0.05 0.43+ -0.26+ 0.05

PODS PRR 100 SEED

DISEASE DISEASE DISEASE QUALITY

YEAR 1975

1			
PERCENT	23.6 21.4 21.3 21.3 20.7 22.6 22.1 24.5 23.1 22.4 22.4 22.4		00.00
PERCENT	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1 0 6	PROBE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
QUALITY OF SEED	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	18.74%	-0.00 -0.30 -0.30 -0.30 -0.00
100 SEED WEIGHT	16,95 12,38 13,30 15,33 15,33 16,58 12,58 17,53 17,23 17,23 17,23 16,63	7.98%	
PODS PER PLANT	22.00 28.25 28.25 24.50 19.75 18.25 32.25 36.75 20.00 18.25 19.00 21.25 27.25	22.51% 7.94	0.12 0.29 0.29 0.29 0.00 0.00 0.00 0.00 0.0
PLANTS	199,25 200,00 199,25 197,00 198,75 200,00 198,75 197,50 199,25 197,50 198,50 198,50 198,50	* E	0.40 -0.22 -0.03 0.30 0.11 0.05 0.06 -0.05 -0.07 -0.07
SHATTER	1, 25 1, 25 1, 25 1, 25 1, 25 1, 00 1, 00	30.14% 0.72	-0.38 +++ -0.38 -0
	N E L L L L L L L L L L L L L L L L L L	₩ *	RG/HA ATURITY UMBER 1 UMBER 2 EIGHT 1 EIGHT 2 HAIGHT 2 HAIGHT 2 HAIGHT 2 HARVEST 9 PLANT WEIGHT 1 II
VARIETY OR CROSS	HAMPTON 266A S.J.2 HARDEE BRAGG DAVIS FORREST WILLIAMS HALLIAMS BOSSIER BOULS BOULS CLARK G3 HILL JUPITER GRAUD ERROR OF A VARPTHY	E S	YIELD DAYS TO DAYS TO NODULE N NODULE W
ENTRY VAR	Q B S S S S S S S S S S S S S S S S S S	LSD VAR	
	200 m 20 c 20 m 20 m 20 m 20 m 20 m 20 m	N.	

	REGION - ASIA SITE - ALUTHARAMA LATITUDE - 7 DEG.	N NG TARKS	£	COUNTRY ELEVATION LONGITUDE	- SRI IANK ON - 266 M OE - 80 DEG	izi ez e				
	LATE PLANTEL - NO SCIL TYPE - SANDY FERTLIZER USED A AMOUNT OF MOISTUI NUMBER OF IRRIGAT SUBSTITUTE VARIET LOCAL VARILIES -	CANTER 11 COR, PB (KG/HA) CE - 1477 CE - 1477 CE - 1477 CE - 1878 CES - BRA	1975 1975 20.0, P M	DATE HA 26.4, K 33	RVESTIL -	EBRUARY,	1976			
NTEN	VARIETY OF CROSS	YIELD KG/AA	LAYS TC FLOWER	DAYS TO	NODULE NUMBEL 1	NUMBER 2	NODULE WEIGHT 1	NCDUIE WFIGHT 2	FLANT	ICLGING
u) ←	BOSSIER	575.1	4.0	, c	20	52.0	e (1) (	ហ	6.7	0.1
7	DAVIS	496.7	0.0	7.0	67.0	30.7	0 4	וט מ	6.2 6.2	0
1112	2	340.8	2.0	5.0	25,5	33,5	h .	(14)	8 2	0
ויין ד	AREKOVLE PELLCAN WILLIAMS	235.4 095.8	202	0.7	32.2 88.5	89.5	m = =	200	7.2	. 5
on i	FORREST	990.8	9.2	0.0	66.2	27.3	- 7		8.2	
שונש	S.J. 2 BRAGG	45.3	2.0	1,5	2.	92.2	. 4 2	9 0	1.7	0,0
	HAMPTON 266A	937.8	 	1.2	07.0	94.2	• •	00 4	6.2	
<i>37</i> C	PE-1	27.8	1.0	6.2	0	7.88	30	. 2	9.2	0.
2 (7	12	25.3	0.0	7.7	ນຸ້າ	01.7	. u	æ -	1.7	0
<b>~</b> ⇒	CLARK 63 TRACY	1600.32	30.00	85.25	158.75	246.25	0.48	1.43	43.25	1.000
		2017.8	u.	$\sim$	ω 		 ()	-	0	0
STANDAR	2	127.27	15	3.61	16.23	21.37	3.36	0.17	747	= 1
M ISI VA	ARIETY MERNS (********S)	365.2	 	7	6.2	60.99	 L	75.88% 74.0	2 C	19.76%
		CORREL	ATION	Ŋ	(+ - FROB:	=, 35	++ - PRCB=	.01)		
	VIELD	1.00	ru c	.7	0 0	77 •	0.0	2.0	<u>س</u> ر	ه دی :
	TOL	0.7	0 0		-0-0	. 250	-0-1	> -		* *
	plant plan	0.0	0 4	0.0	1,00	m c	ر دن د	m =	2 =	0,0
	CDULE	60.0-	90	-0-	0.52	. 24	1.0	. 24	.09	. 1
	CDULE P	0.0	0 0	0.0	m c	7.	0.0	0.0	0,0	. 4
		0.30+	41+	0 0	0.0	.23	-0-1		. 5	0
	SHATTER PLANTS HARVEST	-0.28+	0.00	-0.28+	0.14	0.01	0,15	0.15	. 0 10	0.14
	P4 1	0.2	<b>寸</b>	0.2	0.0		0.	0	7.0	. 2
	111 SEED WEIGHT QUALITY OF SEED	-0.0	- m	9.	0.0	00	. 2	0.20	0.0	
1 1 1 1 1 1 1	i	1 1 1 1 1 1 1	- 1	1	1 1 1 1	- 1	1	1		1

(CCNTINUEE)

YEAR 1975

QUALITY OF SEED	ROB= 012 + 100   1
100 SEED WEIGHT	18.13 19.90 19.90 11.90
PODS PER	16.75 16.75 17.50 12.75 12.75 12.75 13.75 13.74 13.74 13.74 13.74 13.33 13.33 13.33 13.34 15.98 15.98 15.98 15.98 15.98 15.98 17.00 17.75
PLANTS	299.50 299.75 299.50 299.50 299.50 299.50 300.00
SHATTER	7.550 1.755 1.
	GRAND MEAN **********  RELATY MEAN ********  RELATION ********  RELATION CONTURINTY CONTURINTY CONTURER  HEIGHT  HEIGHT  LODGING SHATTER  RAVEST  RELATION  RECHT  RELATION  RECHT  RELATION  RECHT  RELATION  RECHT  RELATION  RE
VARIETY OF CROSS	BOSSIER  JUPITER  DAVIS  HARDEE  IMPROVEE PELIC  WILLIAMS  FORREST  S.J.2  BRAGG  BRAGG  BRAGG  CLARK 63  TRACY  CCR  CCR  CCR  CCR  CCR  CCR  CCR
ENTER	2 1 1 1 1 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

	LODGING	00	2,50	0.0	0.0	. 0	0.0	. 2	0.0	0	0	.5	15 22	m		0.01	0.46++	0.02	-0.25	0.03	0.82++	000	0.02	0.31+	-0.44*	-0.39++	00.00
	PLANT	30	59.83	4.	9.		- T	8	0 0	0 27	m	39, 28	2.05 10 424	5.84		0.15	55	0.16	. 15	0. 15				. 39	-0.18		00000
	NODULE WEIGHT 2	200	1,17	0.0	5.	. 6	9 5	. 7	3 4	.7	. 2	0.77	0.18 45 25 85	***	01)			9 #					0 0		-0.14		00000
975	NODULE WEIGHT 1	6.0	0.57		° 2	-	. n	· m		- ਹੀ ' • •		0.37	39,29%	0.21	+ - PROB=. (		0.61++	9 00				0					00.00
en e	NODULE NUMBER 2	20.7	157.25	o o	m d		~ ~	-	ŝ	, ~,	ď	9	26.54	5.75	=.05 +	্য	4	, E	0 =	1	0.1	LJ C	, 7	0.0	- 0	0.1	0.00
N N S S S S S S S S S S S S S S S S S S	NODULE NUMBER 1	11.0	123.75	24.7	50	06.5	0 0	2	r 5	10	6.5	00 (	26.20%	99	(+ - PROB	59	0.46++	00	0.55++	+91	0.16	0.00	0.09	0.16	-0.14	-0.22	0.00
CCOUNTRY ELEVATIO LONGITUD DATE HAR 6.2, K 33.	DAYS TO	4.2	94.25	3.7	3.7	1.7	7.2	5.7	3,2	7.0	1.5	89.23	7.04	96	N	0, 39++	1 00	0.34+	0.26+	0. 19	0,38++	0.33++	++0+0-	-0.01	-0.21	-0.35++	0.00
N 20.0° P 2 .2 G, HILL, B	DAYS TO FLOWER	35,50		0 0	0 6		0 0		0 6			0,1	10°00 10°00 10°00	. 83	ATIONS	-	300	0.46++	0.18		55	00.00	2	++11100	32	-0.43++	00.0
PALESS 20 MI ENTHIN NE 7, KG/HA) E - 64 IONS - PB-1,	YIELD KG/HA	3039.77	661.7	417.1	297。5 242。5	206.2	015.8	004.1	879.9 811.6	782.8		5.5	19.73%	0.88	ORREL										-0,39++		00.00
SIA JNUKOLL 6 DEG 6 DEG 1 DED 1 USED 10 ISTU IRRIGA TTIES	; } } } ! ! ! ! !		N									RAND MEAN	VARIATION	(SN=******)	O	KG/HA	FLOWER		NUMBER 2	WEIGHT 2	HEIGHT	SHATTER	HARVEST	PLANT	OF SEED	н	III
REGION - ANG SITE - ANG LATITUDE - COOPERATOR DATE PLANT SOIL PR PERTILIZER AMOUNT OF NUMBER OF I LOCAL VARII	WARIETY OR CROSS	HARDET	IMPROVED PELICAN	DAVIS	S.J.2	BRAGG	HILL	TRACY	HAMPTON 266A WILLIAMS	CLARK 63	BONUS	S TO GOODE WE	STABLERY ERROR OF A VARIATION CORPLICION	5% LSD VARIETY MEANS (****		YIELD	DAYS TO	NODULE	NODULE	NODOLE	PLANT		PLANTS	TOUS PER	QUALITY	DISEASE	DISEASE
	ENTRY	e 9	71		15	<b>∵</b> •	10	ထေးက	13 2	11	7	6 A B B B B B B B B B B B B B B B B B B	STANLA	5% LSD VI													

YEAR 1975

EXPERIMENT 374

PERCENT	23.0 23.3 21.9 21.9 22.5 22.5 22.8 22.5 22.8 24.5 24.5 23.8	
PERCENT	- A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-0.24 -0.35+ -0.35+ -0.22 -0.10 -0.28 -0.28 -0.28 -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.39+ -0.00
QUALITY OF SEED	1.25 1.00 2.25 1.00 1.75 1.75 1.75 1.75 1.75 1.75 1.57 1.57	
OO SEED WEIGHT	18,25 17,00 13,50 18,75 18,75 19,75 19,75 22,00 21,00 21,00 21,00 17,75 22,25 18,13 1,02 11,30% 2,93	
ODS PER 10	31,95 24,50 31,83 39,88 26,98 26,08 28,58 20,08 22,93 27,73 27,79 27,79 27,79 27,79 27,79	0.44 ++ -0.01
PLANTS P	174.25 142.05 163.25 202.75 191.75 190.50 181.75 183.75 193.00 177.25 199.00 177.25 199.00 177.25 199.00 177.25 199.00	00.00 00
SHATTER	TELETELETE - 1000 M	
	ND MEAN TY MEAN REALION ***=NS)	KG/HA  PLOWER  O MATURITY  WOMBER 2  E WUMBER 2  E WIGHT 1  E WIGHT 2  I LODGING  SHATTER  SHATTER  PLANT  PLANT  OF SFED  SE  III
VARIETY OR CROSS	HARDPE BOSSIER IMPROVEC PELICAN PB-1 DAVIS PORREST S.J.2 RRAGG JUPITER HILL TRACY HAMPTCN 266A WILLIAMS CLARK 63 BONUS GRAND STANDARD ERROR OF A VARIFTY LSD VARIETY MEANS (*******	YIELD DAYS TO M NODULE N NODULE N NODULE W NODUL
ENTRY	3 6 6 14 17 17 13 13 13 12 8 8 13 13 15 5 5 7 8 8 12 13 12 12 13 14 15 15 15 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	

97
-
YEAR
375
EXPERIMENT
130
BLE
E S

COUNTRY - SRI LANKA PLEVATION - 457 M LONGITUDE - 80 DEG. E	DATE HARVESTED - AUGUST, 1975 26.2, K 33.3	SONUS
REGION - ASIA SITE - GANNORUMA LATITUDE - 9 DEG. N COOPERATOR - B.N. EMERSON	DATE PLANTED - MAI 14, 1975  PRETILIZER USED (KG/HA) - N 20.0, P 26.2, K 33.3 ANOUNT OF MOISTURE - 709 MM NIMBRE OF TREIGHTONS - A	LOCAL VARIETIES - PB-1, S.J.2 SUBSTITUTE VARIETIES - BRAGG, HILL, BONUS

LODGING	1.000110000	18.573 18.573 18.573 19.00 10.00 10.
PLANT	49, 23 83, 25 83, 25 89, 03 89, 03 76, 85 60, 85 60, 85 60, 85 60, 85 85, 23 85, 10 88, 45 88, 45	51.29 3.04 11.86% 8.68 8.68 0.654 0.01 13.04 0.02 0.03 0.23 0.23 0.23 0.23 0.23 0.23
NODULE WEIGHT 2	2,30 1,19 1,89 1,89 1,98 1,67 2,29 2,29	1.90 24.77% 0.023 0.034 0.
NODULE WEIGHT 1	00000000000000000000000000000000000000	0.43 0.22 0.34 0.34 0.34 0.25 0.25 0.26 0.20
NODULE NUMBER 2	455.00 328.25 348.75 4445.75 375.75 749.75 466.25 440.50 332.75 419.50 492.50	=.05 411.77 60.31 29.29% 172.13 172.13 -0.04 -0.04 -0.04 -0.04 -0.01 -0.01 -0.01 -0.01 -0.01 -0.02 -0.02 -0.02 -0.02 -0.03 -0.04 -0.05 -0.04 -0.04 -0.05 -0.04 -0.05 -0.04 -0.05 -0.04 -0.05 -0.04 -0.05 -0.04 -0.05 -0.04 -0.05 -0.05 -0.06 -0.06 -0.06 -0.07 -0.06 -0.06 -0.07
NODULE NUMBER 1	229,00 134,25 214,25 214,25 227,00 222,50 400,00 347,50 127,50 239,25 187,00 131,50	215.70 32.78 33.39 % 93.54 (+ - PROB= 0.20 -0.00 0.25 0.25 0.25 0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.0
DAYS TO	107.50 123.25 104.50 105.25 108.00 96.00 92.50 97.00 100.00 100.00	100.17 0.79 1.57% 2.25 2.25 0.61++ 0.06 -0.06 -0.34++ 0.40++ 0.00 0.00 0.00 0.00 0.17 -0.67++
DAYS TO FLOWER M	33.25 37.00 35.25 35.75 35.50 35.75 30.75 30.75 27.25 27.25	30.88 0.37 2.39% 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05
YIBLD KG/HA	3493.99 3210.39 2798.64 2641.94 2648.22 2426.57 2349.47 2338.47 2338.47 2311.79 2227.87	2516.35 121.51 346.79 0.66% 0.07 0.07 0.02 0.02 0.02 0.02 0.02 0.02
7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	×	GRAND MEAN VARIETY MEAN OF VARATION (********NS)  IELD KG/HA S TO MATURITY DULE NUMBER 1 DULE WPIGHT 1 DULE WPIGHT 2 LANT HPIGHT 2 LANT HPIGHT 2 LANT HPIGHT 1 LODGING SHATTER PER PLANT EAST OF SEED EAST III
VARIETY OR CROSS	HARDEE JUDITER IMPROVED PELICAN BAVIS WILLIAMS S.J.2 PB-T BOSSIFR HILL BONIS HAMPTON 266A FORREST CLARK 63 BRAGG	R OF A A EANS ( PLEENT VILLE OF A PLEENS ( PLEENS C PLEEN
ENTRY	EL 4 V E E E E E E E E E E E E E E E E E E	STANDARD ERRO COFFE S% LSD VARIETY

PERCENT PERCENT PROTEIN OIL	43.2 23.9 40.7 27.0										24.	25.	39.7 24.0					++ - PROB=.01)	-0-22 0-00 0	00.0	0.38+	00.0	00-0	00.00	0 00 00	0.47++ 0.00 0.0	0.00	0.00	0.02 0.00 0.00	.0 00.00 +	. 0 00 0 +	+ 0.00 +	0.00	0.
QUALITY OF SEED	1.50	0	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.13	0.23	7		=.05		0		0 -	0		0	+ -0.11	-0.07	0.00	0.32+	0	0.09	200-1	> <	00 0
100 SEED WEIGHT	21.	21.		14.	12.	18°	17.	22.40	21.79	17.71	20,35			19.63	0.72	7.33%	2.05	(+ - PROB	0.0	-0-	-0.0	-0.41++	-0.27+	-0-	0	+ 77 0 -		0	0.01	0-	- 0	0.09		0.00
PODS PER PLANT	35.25	24.00	16.50	45.75	44.75	25.00	22.25	~ 4	23.00	25.00	16.00	16,75	15,25	26.98	2.70	20.	7.71	S	0.	0	0.67++			0	0	0	+6tr 0	00.00	0.19	1.00	++ 85 - 0 -	000		00.00
PLANTS	200.50	201.00	200.50	200.75	200.00	200.15	200.25	000000	200.00		9 1	- 2	200.00	- 2		7.0	****	ATION	0.42++		- 0		- 0	- 0			0 0	0 0	000	_ <		000	0	
SHATTER	1.000	1.00	1.00	1.00	000-	00.	00.		*		00.	1.00	1.00	1.00	00.00	0.00%	0.00	ORREL	00.00	00 00	0.00	0.00	00.00	00.00	00.00	00.0		- 0	000	000	00.0	00 00	0,00	3 0
0 0 0 0 0 0 0 0	×													GRAND MEAN	ILETY MEAN	VARIATION	******	S						WEIGHT			CHATTED	2 1		130	OF SEED			
VARIETY OR CROSS	HARDEE JUPITER IMPROVRD DRITCAN		WILLIAMS	S.J. Z.	BOSSIER		BONIS	HAMPTON 2661		CINE AN	5	00000	TRACT			ICIENT	VAKIETI MEANS (****		H		DAYS TO	A LUCION	MINDON MANAGEMENT OF THE PROPERTY OF THE PROPE	BODON	ENG EQ	TNUT		PT.A NT.S	PODS PRE	100 SEED	OUALITY	DISEASE	DISEASE	DISEASE
ENTRY	M ← #	7	<del>1</del> 4	10	9	10	12	2	6	11	٠ در	0	o		STANI	6 to 10 to 1	DOT NO																	

YEAR 1975	
EXPERIMENT 378	
TABLE 131	

	1976		
ANKA M DEG. E	MASENA DATE HARVESTED - PEDRUARY, 1976		
COUNTRY - SRI LANKA LLEVATION - 457 M LCNGITUEE - 80 DEG.	HARVESTEL	33,2	
COUNT	HASMASENA	F 26.4, K	ECNUS
	C. E. E	20.0,	HILL 2
REGION - ASIA SITE - GANNCRUMA LATITUDE - 7 DEG 15 MIN. N	CCOPERATCES - B.N. EMERSON, C.D. DHARMASENA DATE PLANTID - NOVEMBEA 15, 1975 DATE SCIT WULL (IAV DH 5, 7	TERTILIZER USED (KAJA) - N 20.0, F 26.4, K 33.2 AMOUNTED OF TRIJIGATIONS - 6	SUBSTITUTE VARIETIES - BRAGG, HILL, BONUS ICCAL VARIETIES - PB-1, S.J.2

LOEGING 1.00 1.00	000000000000000000000000000000000000000	
3.0 3.0	20115 20115 20116	
NCDUIE WEIGHT 2 2.24 2.08 2.30	2.50 2.20 2.20 2.30 2.30 2.30 3.10 5.10 5.10 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.2	2.00 2.00 0.29 ************************************
NOEULE WEIGHT 1 0.29 0.47	EFF 900000000000000000000000000000000000	
EE 50	452.00 455.28 455.28 633.75 525.5) 5291.75 572.75 405.00 405.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
NODULE UMBEF 1 130.00 142.25 124.25	192.50 181.50 161.50 243.25 243.25 106.00 106.00 99.50 193.00 184.25 246.75	ы о + + + I
DAYS TO ATURITY P 90.50 95.75	991.75 888.25 922.25 886.25 866.75 104.75	000
TC 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	28. 25 28. 25 28. 25 28. 25 28. 25 27. 00 28. 35 27. 00 28. 35	0 000000000000000000000000000000000000
	1812.86 1781.61 1687.60 1625.32 1573.23 1531.14 1396.11	1 0380000x + 3071000 E = 3000 E
ENTRY VARIETY ACREE OR CROSS  9 PORREST 7 DAVIS		GRAND MEAN STANDARD ERROR OF A VARIETY MEAN CCEPPICIENT OF VARIATICN TEL VARIETY MEANS (***************  VIELD KG/HA DAYS TO MATURITY NODULE NUMBER 1 NODULE WEIGHT 1 LOGING SHATTER PLANT LOGING SHATTER PODS PER REGHT 100 SEED WEIGHT 100 SEED WEIGHT

6					1 1 1 1 1 1 1		1 1
	BKLETY		PL	되다	121	UALIT	
 ≥: 	OF CRUSS	SHATTER	V II S	PIANT	WEIGHT	OF SEED	
5	FORREST	1,00	02 005		7	•	
u	0		3 0	r a		000.	
, 1.	1 (	[ [ 0 ]	_	9.	9.	1.0)	
		1.00	300.50	-	9	1.00	
7 (	IMPROVED PELICAN	1.00	300,50	0	7	1,1)	
7)	HARDEE	1.00	300,75	2	. 6	1.00	
ا ب		1.00	301.00		0	00.1	
u)	LER	1, 1)	300,25		0		
N.	NO	1.00	301.00	7	, -		
		1.00	295 . 50	- 30	α	1 1 1 1 1 1 1	
<b>.</b>	BPAGG	1.00	300,75	9		00.1	
V	BONUS	1.00	300.50	(			
	WILLIAMS	1.33	311,25	. 7	7	1,00	
	EACY	1.00	300.00	ω,	- α	1,00	
, mg	JUPITER	1.00	301.00	9	2	1.33	
	PB-1	1.00	300.50	13.80	10.00	1.00	
	GRAND MEAN	1,0	300, 47		15 711	,	
STANDA	RIETY MEA	0.0	0.57			7000	
	CIENT OF VARIATI	200.0	0.00	- C	200	9.96	
V ISI R	TY MFANS (*******		S	) (	で ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	17.10%	
	N	>	er.	0	1.56	***	
	CCRRELAT	I O N S	- +)	PROB=.05	++ - PR	OB=.01)	
	YIELD KG/H	0.0	0.05	0.66++	0.35++	00-0	
	) FLOWE	0.0	3.38	$\sim$	-).21	- ).07	
	AYS TO MATU	0.0	0.17	2	0.09	60 0 0 -	
	CLULE NUMB	0.0	-1.13		- 3,24	-0.22	
	CDULE NUMB	0.0	0.01		0.13	40°0-	
	WEIG	0 0	-0.07	5	-0.17	-0.19	
	COULE WEIG	0.0	-0.14	35	0.20	-0.06	
	FLANT BEIGHT	0.00	0.13		-0.23	-0.09	
	LODGING	0.0	0.00	0.00	0.33	00.00	
	SHA	1.0	00.00	00.00	00.00	00.00	
	LANTS HAR	3.)	0	-0.01	), )8	-0°06	
	POUS PER PLANT	_	0	-	-0.22	40°0-	
	SEEC MEIGH	0	0	-	1.00	0.14	
	QUALITY OF SEED		-0.06	+0°0-	0.14	1-00	
THE PERSON							

The Property of the Property	ENTFY	VARIETY OF CROSS	XI KG	YIELD I	CAYS. TC FLOWER	DAYS TO	NODULE NUMBER 1	NCDULE NUMBER 2	NODULE WEIGHT 1	NCDUIE WEIGHT 2	PLANT	LOLGING	
## FRANCE ## FRA	m L	HARDEE DAVIS	4470	. 37	5.0	102.50	133,50	7	2.7		÷ ;	1.00	
### FULLEARY   3371.57   28.00   87.75   148.25   220.55   0.51   2.24   46.55   0.51   2.24   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.51   2.54   46.55   0.55   0.55   2.54   46.55   0.55   0.55   2.54   46.55   0.55   0.55   0.55   2.54   46.55   0.55	9 w	BRAGG	3698	.52	0.0	94.00	105.75	7.	~ =	0 9	~ a	1.00	
## FPEREST   3550.29 34.00 91.01 104.75 226.00 0.643 2.516 46.59   ## IMPROVEE PELICAN   334.14   34.00 91.01 104.75 226.00 0.643 2.516 109.59   ## IMPROVEE PELICAN   322.12   313.375 34.00 103.00 103.00 103.75 0.65 2.47 109.59   ## S.J.2   3159.30 36.00 103.00 103.00 375.00 0.65 2.47 109.59   ## S.J.2   3159.30 36.00 103.00 103.00 375.00 0.65 2.47 109.59   ## S.J.2   3159.30 36.00 103.00 103.00 375.00 0.65 2.47 109.50   ## S.J.2   3159.30 36.00 103.00 105.00 375.00 0.65 2.47 109.50   ## S.J.2   2005EER	(L)	WILLIAMS	3571	. 07	8.0	87.75	148.25	· IU	0	9	0	0	
## PEROVE PETICAN 3313-75	O)	FCRREST	3570	.59	4.0	91.33	104.75	C.	, 4		9	0	
TEL VARIETY REAL NOTE FELICAN  1313-15  14 TIRROVED FELICAN  1313-15  15 31-15  15 31-15	14		3364	4 4	0 . 4	90.00	203.75	0 1	9 '		0	0	
STANDARD ERBOR OF A ARRITATION   10.90   11.00   11.	<b>□</b>	VEC	33.13 2.13 3.13	.75	0 °	103.00	64.50		9 1		രം	0	
## BONDIE HILL    1919.10   112.00   117.00   11			3252	. 12	0 0	90.00	183.00	0 1			9 1	57 1	
### HENDER   CARAND MEAN   315,73   31,70   31,00   31,20   31	2	5.1.2	3193	80.	7.0	103.00	86.50	R) (	വ		2	-	
## PRILL   197, 26   19,00   115,50   253,75   0,50   2.20   445,70   19,00   19,50   157,25   0,50   2.20   445,70   19,00   19,50   159,50   158,00   0,25   2,14   55,00   19,00   19,50	d 2	BOSSIER	3159	.30	0 . 0	90.33	112.00	0	ф •	9	°.	$\Box$	
STANDER   CARNETER   CARNETER   CANDITOR	10		2920	.15	5.0	91.00	91.50	2	. 5		5	0	
## STANDER PROBLEM    2566,34	7	NO	2703	÷0.	1.0	100.00	119.50	7	<u>ش</u>		ф ф	0	
THE JUPLIER  GRAND MEAN 3563.75 34,13 95,95 117.65 267.93 0.63 2.87 62.2  STANDARD ERROR OF A VARIETY MEAN 184,40 0.00 0.44 13.74 36.01 0.10 0.36 2.62  GOEFFICIENT CF VAFRATION 10.96% 0.00% 0.91% 23.36% 26.88% 33.63% 25.19% 6.6.8  RIEL VARIETY MEANS (********=NS) 526.30 0.00 1.25 39.22 102.78 0.28 1.03 5.89  INCIDENT OF PICKER -0.19 0.016 0.21 0.17 -0.03 -0.0  DAYS TO MITCHITY -0.09 0.69++ -0.21 0.44++ 0.24++ 0.51++ 0.45++ 0.6  NODULE NUMBER 1 0.16 -0.04 0.44++ 0.21 1.00 0.13 0.26++ 0.61++ 0.20++ 0.01  NODULE WEIGHT 1 0.01 0.15 0.05++ 0.20+ 0.20+ 0.00+++ 0.00+++ 0.00++++++++	12	BONUS	2661	.34	9.0	91.00	92.00	0	. 2		ŝ	0	
## CARARD FERON OF A VARIETY MEAN 184.40 0.00 0.44 13.74 36.01 0.10 0.36 2.00 0.44 13.74 36.01 0.10 0.36 2.00 0.44 13.74 36.01 0.10 0.36 2.00 0.44 13.74 36.01 0.10 0.36 2.00 0.20 0.01	-	JUPITER	2565	. 26	0 ° 4	117.00	-7	7	0,		8	2.75	
## STANDARD ERROR OF A VARIETY MEAN 184,40 0.00 0.444 13.74 36.01 0.10 0.36 2.0 COEFFICIENT CF VARIATION 10.96% 0.00% 0.91% 23.36% 26.88% 33.63% 25.19% 6.6 6.6 COEFFICIENT CF VARIATION 10.96% 0.00% 1.25 39.22 102.78 0.28 1.03 5.6 6.6 COEFFICIENT CF VARIATION 10.96% 0.000 1.25 39.22 102.78 0.28 1.03 5.6 6.6 COEFFICIENT CF VARIATION 1.00 0.009 0.16 0.21 0.17 0.03 0.05 COEFFICIENT COEFFICIE		GRAND M		.75		5.9	0	267.93	0.63	2.87	2	n (17	
COFFICIENT CF VARIATION 10.96% 0.00% 0.91% 23.36% 26.88% 33.63% 25.19% 6.6%   CORRET A I C N S (********=NS) 526.30 0.00 1.25 39.22 102.78 0.28 1.03 5.6%    CORRET A I C N S (********=NS) 526.30 0.00 1.25 39.22 102.78 0.28 1.03 5.6%    CORRET A I C N S (********=NS) 526.30 0.00 1.25 39.22 102.78 0.28 1.03 5.6%    EXAMENTETY MEANS (********=NS) 526.30 0.00 1.00 0.00    CORRET A I C N S (**********************************	STANDAR			0 17 0	00.0	7.	3.74			0.36		0.1	
YIELD   KG/HA		Н	z	° 96%	0.00%	6.9	3,36	$\alpha$	30.63	25.19		20.38%	
C O R R E L A I I C N S (+ - PROB== 05 ++ - PROB== 01)  FLOWER -0.19 -0.09 0.16 0.21 0.45+ 0.51+ 0.45+ 0.65  FLOWER -0.19 0.69+ 0.016 0.34+ 0.34+ 0.51+ 0.45+ 0.68+ 0.68+ 0.69+ 0.69+ 0.021 0.44+ 0.32+ 0.45+ 0.68	ISI		_	• 30	00.00	- 2	o,	-		1.03			
KG/HA         1.00         -0.19         -0.09         0.16         0.21         0.17         -0.03         -0.06           FLOWER         -0.19         1.00         0.69++         -0.21         0.44++         0.51++         0.45++         0.69+         0.69+         -0.21         0.44++         0.51++         0.45++         0.68++         0.69++ </th <th></th> <th></th> <th>0 R</th> <th>H</th> <th>I C N</th> <th>ro.</th> <th>PRO</th> <th>B=. 0</th> <th>++ - PROB=</th> <th>.01)</th> <th></th> <th></th> <th></th>			0 R	H	I C N	ro.	PRO	B=. 0	++ - PROB=	.01)			
FICKER         -0.19         1.00         0.69++         -0.34         0.34++         0.51++         0.45++         0.6           NUMBER I         0.05         0.69++         1.00         -0.21         0.44++         0.32+         0.38++         0.6           NUMBER I         0.16         -0.04         -0.21         1.00         0.32+         0.38++         0.6           NUMBER I         0.16         -0.04         -0.21         1.00         0.51++         0.15         -0.2           NUMBER I         0.01         0.34+         0.34+         0.51++         0.26+         0.51+         0.56+         0.50+         0.60+ <td></td> <td></td> <td></td> <td>00.</td> <td>-0.19</td> <td>0.0-</td> <td>0</td> <td>0.21</td> <td>0</td> <td></td> <td>0</td> <td>0-</td> <td></td>				00.	-0.19	0.0-	0	0.21	0		0	0-	
MATURITY         -0.09         0.69++         1.00         -0.21         0.44++         0.32+         0.38++         0.64           NUMBER 1         0.16         -0.04         -0.21         1.00         0.51++         0.51++         0.26           NUMBER 2         0.021         0.34++         0.51++         0.26+         0.26+         0.26+           NUMBER 3         0.31         0.34++         0.51++         0.26+         0.26+         0.26+           NEIGHT 3         0.01         0.33++         0.51++         0.26+         0.26+         0.26+           HEIGHT 6         -0.09         0.65++         0.64++         -0.20         0.29+         0.24         0.19         1.00           LODGING 7         -0.20         0.65++         0.64++         -0.21         0.18         0.24         0.19         1.00           SHATTER 7         0.03         0.00         0.00         0.00         0.00         0.00         0.00           HARVEST 7         0.69++         -0.33+         0.16         0.02         0.00         0.00         0.00         0.00           NECHT 7         -0.48++         0.57++         0.09         0.02         0.22         0.47++			'	•19	1.00	0.6	0-		+ 0.	0.45+	0.6	0.6	
NUMBER 1 0.16 -0.04 -0.21 1.00 0.13 0.51++ 0.15 -0.20   NUMBER 2 0.21 0.34++ 0.44++ 0.13 1.00 0.26+ 0.56++ 0.61++ 0.29   NUMBER 2 0.21 0.34++ 0.44++ 0.13 1.00 0.26+ 0.61++ 0.29   NUMBER 2 0.21 0.34++ 0.34++ 0.21++ 0.26++ 1.00 0.50++ 0.20+   NUMBER 2 0.03 0.45++ 0.34++ 0.15 0.61++ 0.20++ 0.20+ 0.20+   NUMBER 3 0.03 0.45++ 0.34++ 0.15 0.61++ 0.50++ 1.00 0.10   NUMBER 3 0.03 0.45++ 0.54++ 0.20 0.61++ 0.50++ 1.00 0.10   NUMBER 3 0.04++ 0.05++ 0.54++ 0.20++ 0.20++ 0.20+   NUMBER 3 0.09 0.00 0.00 0.00 0.00 0.00 0.00   NUMBER 3 0.20++ 0.30++ 0.33++ 0.49++ 0.01 0.00 0.00 0.00 0.00 0.00   NUMBER 3 0.21 0.21++ 0.23++ 0.49++ 0.01 0.00 0.00 0.00 0.00 0.00 0.00 0.		TO	'	° 09	0.69++	1.0	0	+ h h ° 0	÷ 0°	0.38+	19.0	0.5	
NUMBER 2 0.21 0.34++ 0.44++ 0.43 1.00 0.26+ 0.26+ 0.61++ 0.29  WEIGHT 1 0.17 0.51++ 0.32+ 0.51++ 0.26+ 1.00 0.50++ 0.24  HEIGHT 2 -0.03 0.45++ 0.34++ 0.45+ 0.51++ 0.56+ 1.00 0.19  HEIGHT 0 -0.03 0.65++ 0.54++ -0.21 0.29+ 0.24 0.19 1.00  LODGING -0.20 0.65++ 0.53++ -0.21 0.18 0.22 0.08 0.84  LODGING -0.20 0.65++ 0.53++ -0.21 0.18 0.20 0.00  HARVEST 0.69++ 0.19 -0.33+ 0.16 0.03 0.06 -0.30+ 0.02  WEIGHT -0.04 0.08 0.39++ -0.09 0.20 0.00 0.00 0.00			_	• 16	-0.04	-0.2		0.13	0			6	
WEIGHT 1 0.17 0.51++ 0.32+ 0.51++ 0.26+ 1.00 0.50++ 0.50++ 0.50++ 0.50++ 0.50++ 0.50++ 0.50++ 0.50++ 1.00 0.50++ 1.00 0.50++ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 1.00 0.50+ 0.50+ 1.00 0.50+			7	.21	0.34++	3°0	m (	1.00	0	0.61+	0.29		
HEIGHT 2 -0.03 0.455+ 0.384+ 0.15 0.501+ 0.504+ 1.00 0.0  HEIGHT -0.09 0.655+ 0.644+ -0.20 0.29+ 0.29+ 0.24 0.19 1.  LODGING -0.20 0.655+ 0.655+ 0.03 0.00 0.00 0.00 0.00  SHATTER 0.03 0.03 0.03 0.03 0.00 0.00 0.00  HARVEST 0.694+ -0.19 -0.33+ 0.16 0.03 0.06 -0.30+ 0.  FIANT -0.488+ 0.57++ 0.49++ 0.09 0.22 0.22 0.47++ 0.00  OF SEED 0.00 0.00 0.00 0.00 0.00			- (	.17	0.51++	0.32	0 0	+ 0.26+	<u> </u>	0° 20+	0	0.22	
HEIGHT -0.09 0.65++ 0.64++ -0.20 0.29+ 0.24 0.19 1.  LODGING -0.20 0.65++ 0.53++ -0.21 0.18 0.22 0.08 0.  SHATTER 0.09++ -0.19 -0.33+ 0.16 0.00 0.00 0.00 0.00 0.00 0.00 0.00		正	- 2	. U.3	0.45++	0.38	0 (	_				0	
LODGING -0.20 0.65++ 0.53++ -0.21 0.18 0.22 0.08 0. SHATTER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			1	60.	0.65++	91	0	0.29+			- 02	00 (	
SHATTER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		TODE	•	.20	0.65++	ກເ	0 (	0.18			0	٠, ١	
HARVEST 0.69** -0.19 -0.33* 0.16 0.03 0.06 -0.30* 0. PLANT -0.48** 0.57** 0.49** 0.09 0.22 0.22 0.47** 0. WEIGHT -0.01 0.08 0.39** -0.08 0.24 0.13 0.44** -0. OF SEED 0.00 0.00 0.00 0.00 0.00 0.00 0.00				000	0.0	$\supset$ $ $	<b>⇔</b> (	00.0				9	
PLANT -0.48** 0.57** 0.49** 0.09 0.22 0.22 0.47** 0. WEIGHT -0.01 0.08 0.39** -0.08 0.24 0.13 0.44** -0. OF SEED 0.00 0.00 0.00 0.00 0.00 0.00		H		++69°	-0. 19	m,	0	0.03		-0.30+	0	0	
WEIGHT -0.01 0.08 0.39++ -0.08 0.24 0.13 0.44++ -0.15 OF SEED 0.00 0.00 0.00 0.00 0.00			'	* #8 # *	0.57++	<b>**</b>	0	0.22		0.47+	0	-	
OF SEED 0.00 0.00 0.00 0.00 0.00 0.00 0.00				.01	0	m ·	-0-	0.24			-	. 5	
		OF		00.	00.00	0	0	00.00			00.00		

CCUNTEY - SEI LANKA ELEVATION - 9 M LONGITUDE - 80 DEG. 5 MIN. E

YEAR 1975

EXPERIMENT 656

TABLE 132

DATE HARVESTED - APRIL, 1976

REGION - ASIA

SITE - KIIINCCHCHI
LATITUDE - 9 DEG. 2 MIN. N
CCOPERATON - 5
CCOPERATON - 6
CCOPERATON - 1
COPERATON - 6
CCOPERATOS - 1
COPERATON - 6
COPERATON - 7
CONTINUE NO MOMBLE - 178 MM
NUMBER OF IRRIGATIONS - SEVERAL
SUBSTITUTE VARIETIES - BRAGG, HII, BCNUS
LCCAL VARIETIES - PB-1, S.J.2

QUALITY OF SEED	000000000000000000000000000000000000000	FOB=)  LOO 0  LOO 0  1  1  1  1  1  1  1  1  1  1  1  1  1  1  1
100 SEED WEIGHT	15.34 19.56 19.29 16.29 17.55 17.75 17.17 14.33 16.35 21.52 21.52 21.85 23.18	17.50 1.51 1.42 1.42 1.42 1.00 0.39 0.24 0.24 0.13 0.14 0.14 1.00 0.00 0.00 0.00 0.00 0.00
PODS PER PLANT	2242 2242 2242 2242 2242 2242 2242 224	34.41 2.65 7.55 7.55 0.09 0.22 0.47 1.23 0.16 1.00 0.40 0.40 0.40
PLANTS	282.75 277.00 288.50 284.33 284.33 289.75 289.75 289.75 186.00 188.00 109.00	236.23 9.22 7.86% 26.31 6.069** 10.06 10.0
SHATTER	000000000000000000000000000000000000000	N N N N N N N N N N N N N N N N N N N
	×	AND MEAN ARIATION ****=NS) E L A T I KG/HA TLOMER MATURER NUMBER 2 WEIGHT 1 WEIGHT 1 WEIGHT C SEED WEIGHT CF SEED
VARIETY OR CROSS	HARDEE DAVIS BRAGG TRACY TILIAMS FORREST FORREST IMPROVED PELICAN CLARK 63 S.J.2 BOSSIER HILL HAMPTON 266A BONUS JUPITER	GRAND ERROR OF A VARI COEFFICIENT OF WARIETY MEANS (****  C C K E  YIELD DAYS TO DAYS TO NCDULE NCDU
FNTEY	mr 9 m 5 m 5 4 G = 1	AT ST

1975
YEAR
629
EXPERIMENT
133
TABLE

COUNTRY - SRI LANKA ELEVATION - 138 M LONGITUDE - 83 DEG. 28 MIN. E	DATE HARVESTEL - FEBRUARY, 1976	.4, K 33.2	NUS
REGION - ASIA SITE - MAHA ILLUPPALLAMA LATITUDE - 8 DEG. 5 MIN. N	CCOPERATOR - P.W.S.M. WEERASINGHE LATE PLANTED - NOVEMBER 15, 1975 SOIT TYPE - SANDY CLAY LCAM. EH 6.4	FERTILIZEE USED (KG/HA) - N 23.0, P 26.4, K 33.2 AMOUNT OF MOISTURE - 227 MM	SUBSTITUTE VARIETIES - BRAGG, HILL, BONUS LOCAL VARIETIES - PB-1, S.J.2

LOEGING	000000000000000000000000000000000000000	
PLANT	50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35.70 1.21 6.77% 3.45 3.45 0.72+ 0.76+ 0.19 0.021 1.00 0.033 0.033 0.033 0.033 0.033
NODULE EIGHT 2	0.055 1.022 1.022 1.022 1.022 1.020 1.020 1.020 1.044 1.050	1.36 23.91% 0.46 0.09 0.07 0.74 0.74 0.22 0.00 0.22 0.00 0.22 0.00 0.29 0.20 0.20
NODULE EIGHT 1 W	0.23 0.19 0.19 0.119 0.119 0.115 0.118 0.118 0.022 0.023	29.57% 29.57% 29.57% 0.02 0.07 0.05 0.25 0.25 0.25 0.26 0.00 0.11 0.45++ 0.00 0.17
NODULE NUMBER 2 W	42000000000000000000000000000000000000	153.93 14.84 19.28% 42.35 0.20 0.13 0.08 1.00 0.74++ 0.74++ 0.00 0.34++ -0.34++
NODULE IUMBER 1 N	760187876946 00000000000000000000000000000000000	(+ - PROB= -0.39+ -0.10 -0.52+ -0.03 -0.03 -0.03 -0.04 -0.07 -0.07
DAYS TO ATURITY N	0000000000000	73.15 0.06 0.18 0.18 1.00 1.00 0.25 0.02 0.02 0.00 0.00 0.33 0.33 0.33 0.33
LAYS' TC PLOWER M	76717878770	32.05 0.32 2.01% 0.92 1.01 0.92 0.27 0.27 0.06 0.72 0.06 0.06 0.07 0.06 0.06 0.06 0.06 0.06
YIELD KG/HA	40000000000000000000000000000000000000	888.51 71.02 71.02 71.02 202.71 1.00 -0.15 -0.16 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2
TET VARIETY REER OR CROSS	IMEROVED PELICAN CLARK 63 S.J.2 B.J.2 BOSSIER WILLIAMS HARDEE DAVIS BONUS BRAGG PB-1 HILL FCRREST HAMPTON 266A TRACY	GRAND MEAN  STANLARD ERROR OF A VARIETY MEAN  COEFFICIENT OP VARIATION  ISI VARIETY MEANS (**********S)  C (***********S)  VIELD KG/HA DAYS TO MATURITY NODULE NUMBER 1 NODULE WEIGHT 1 NODULE WEIGHT 1 NODULE WEIGHT 1 NODULE WEIGHT 2 PLANTS HARVEST POES PEE PLANTS HARVEST POES PEE WEIGHT 100 SEED WEIGHT

85 U1

# # # #		
PERCENT	22.6 22.6 22.0 23.5 23.5 24.0 22.8 21.8 22.8 20.9 20.9 20.9 20.9	
PERCENT	4 4 4 4 4 4 4 5 7 2 2 2 2 4 4 4 4 4 4 4 4 5 7 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
QUALITY OF SEED		ROB = .01)  **ROD = .01)  **O .00  **O
100 SEED WEIGHT	13.44 13.44 10.44 12.26 15.25 13.52 13.54 13.50 13.50 11.44 11.44 15.47	12.73 0.17 2.71% 0.49 ++ - PRO -0.24 -0.16 -0.16 -0.16 -0.16 -0.16 -0.16 -0.16 -0.16 -0.16 -0.16 -0.16 -0.19 -0.10
PODS PER	23,27 16,22 13,55 14,15 14,15 14,15 14,18 14,18 13,65 21,50 22,88 18,78 18,78 14,63	17.53 1.23 14.03% 3.51 2.51 -0.06 0.33++ -0.33++ -0.03 0.17 0.43+ 0.45+ 0.45+ 0.43+ 0.45+
PLANIS	193.50 186.00 207.50 173.25 166.25 146.75 172.25 141.50 206.00 162.00 175.75 128.50	173.70 11.84 13.87% 33.80 (+ - P 0.54+ 0.34+ 0.34+ 0.34+ 0.14 0.14 0.14 0.14
SHATTER	121111111111111111111111111111111111111	0 0.00 0.00 0.00 0.00 0.22 0.22 0.22 0.2
ENTER VARIETY NUMEEE OR CRGSS	4 IMPROVEE PELICAN CLARK 63 15 S.J.2 16 BOSSIER 13 WILLIAMS 3 HARDEE 7 DAVIS 6 BRAGG 14 PB-1 10 PLII 10 PCREST 2 HAMPTON 266A 11 JUPITER	GRAND MEAN  COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  (*********NS)  CORRELATION  XIELD KG/HA  DAYS TC FLOWER  DAYS TC MATURITY  NCDULE NUMBER 1  NCDULE NUMBER 1  NCDULE NUMBER 2  NCDULE NUMBER 1  NCDULE NUMBER 2  NCDULE NUMBER 3  NCDULE NUMBER 4  NCDULE NUMBER 4  NCDULE NUMBER 4  NCDULE NUMBER 5  NCDULE NUMBER 5  NCDULE NUMBER 5  NCDULE NUMBER 7  NCD

	ICEGING	0	0.	1.00	2 0	. 0	0	0.		20		0 .		•	1.02	0 1	• #		· .	0	0.0	0 .	2.	0	0	0.	2.	- 0	? 0	1 1 1 1 1 1 1 1 1
	FLANT	1.7	1.2	33.50	7 ° Z	. 0	5.2	6.0	ر د د		6.5	3.2	2 0 0		. 2	494	5.53		0	0.78+		0.	20	2 0	0.0	0	.13	ວຸດ ນຸດ	.26	-
	NCDUIE IEIGHT 2	4	÷.	2.11	ه ۳ د	, 0	. 2	9 .	ۍ ر		• е ГП -	0.	. 0	2	0:	0.40	1.13	01)	0	-0.18	۰ .	(7)	2.0	00	0	5	0.	٦ ،	0.2	I I
3 6 7 6	NODULE WEIGHT 1	-	9	80.0	ф a	• m	0	٠ د د	च : •	) i t	9 .	1.	∞ r	2	6	0.14	% 50 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0	+ - PROB=.	C	-0.43++	0.7	.28	· ·	200	.2	٠,	0.	٠,	0	-
MIN. RY,	NODULE NUMBER 2	72.2	10.7	336.75	ນ = ນ = ນ ດ	0.00	11.0	43.7	7.0	76.5	45.2	89.7	73.5	- n n +	2.1	3.73	124.82	=, 35 ++	0	-0.05	7 7	.00	50	9 C	0	-	20	<b>•</b>	. 0	- 1
LANK 84 M 1 DEG L - E	NUMBER 1	t)	-	112.25	1.0.0 2.0.0 2.0.0	50.2	. 7	0	٠,	- (	ه . د ۱	0	0,0	?	1.7	9	54.73	(+ - PROB:		-0.45++	° -	. 41+			0.08			9	0 6	- 1
COUNTRY ELEVATIC LCNGLTUD DATE HAS .1, K 74.	DAYS TO	2.7	8.7	100.00	7.0	5.0	5.5	2.0	0 0	, r.	2.3	2.0	5.0	0 0 7	2	. 68	1.94	w	29	++99.0		0.3	. 22	2 C	0, 13	47 .	0.	2 0	7.	-
1975 22.4, P 3	DAYS IC FLOWER	0,0	0.0	30.00	0 0		0.0	0.0	0 0	20	3.3	0.0	0 0		-	. 00		T I C N	ξ,	00	0 . 0	• 05	7.4	000	0. 0E	0.2	0.1	0.0	- 0	1
A 45 MIN. N. HEFAT 16, CKG/CHA) - NA ME - NA ME - NA ME - NA ME - HA32 AM IION - BRAGG	YIELD KG/HA	200.6	132,2	2917.25	1.201	649.7	6.11.3	594.2	573.8	00100	392.5	262.5	146.6	0 % / 0 0	62.5	51,03	431.86	ORRELA		0.13	VO	N	00	> -	0.0	15	10.5	00	17	1
REGION - ASIA  REGION - ASIA  SITE - MCNEEGGALA  LATITUDE - 6 DEG.  CCOPPEATCR - L.G.  DATE PLANTED - NOT  FENTLIZER USED (1)  AMOUNT OF MCISTUR  SUBSTITUTE VARIETIES - LCCAL VARIETIES -	ENTEX VARIETY NUMBER OR CROSS	DAVI	BCSSI	3 HARDEE	TITEM TITEM	TMPROVED	HAMPTON 266A	PE-1	S.J.2	JUPL	TRACY	HILL		CLAAR 0	GRAND MEA	ERROR OF A VARIETY MLA	FFICIENT OF VARIATIAN MEANS (************************************	υ	× 2	S TO	AYS TO MATURI NODULE NUMBER	DULE NUMBER	DULE WEIGHT	TENT METERS	Longi	SHATT	INTS HARVE	FER PLY		

QUALITY OF SEED	00000000000000000000000000000000000000	2.30 0.00 0.00 0.00 0.00 0.13 0.02 -0.02 -0.25 -0.25 -0.25 -0.23 -0.23 -0.23 -0.23
100 SEED WEIGHT	22. 73 22. 73 21. 25 23. 18 23. 18 23. 18 14. 50 14. 50 19. 05 19. 05 17. 90 19. 85	21,37 0,50 1,88% 1,48% 1,42 0,32 0,32 0,24 0,04 0,04 0,04 0,04 0,04 0,04 0,0
PODS PER	16.53 16.48 16.30 17.88 15.75 15.75 22.03 31.38 18.75 17.00 20.13 18.53	19.86 12.33% 3.50 BROB= 05 0.06 0.028+ -0.13 -0.09 -0.059+ -0.059+ -0.059+ -0.059+ -0.034- -0.033+
PLANTS HARVEST	293.25 279.50 284.00 249.75 254.33 273.50 275.50 281.53 275.75 240.281.53 275.75 275.75 275.75	** ***********************************
SHATTER	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.48 0.48 0.48 0.48 0.48 0.25.91% 0.27 0.27 0.21 0.31 0.03
8 3 6 8 1 1 4 2 5 6 8	æ	RAND MEAN  *****NS)  E L A T I  KG/HA  FLOWER  NUMBER 2  WEIGHT 1  WEIGHT 1  WEIGHT 2  WEIGHT 2  WEIGHT 2  WEIGHT 2  WEIGHT 2  WEIGHT 3  WEIGHT 3  WEIGHT 3  WEIGHT 4  WEIGHT 4  WEIGHT 6  WEIGHT 7  WEIGHT 7  WEIGHT 7  WEIGHT 6  WEIGHT 7
VARIETY OR CROSS	DAVIS BOSSIER HARDEE HARDEE HILIAMS BRAGG IMPROVEL FELICAN HAMPTON 266A PB-1 S.J.2 JUPITER FCRREST TRACY HILL BCNUS	RD ERROR OF A VAR CCEPPICIENT OF ARIETY MEANS (*** C C R R YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE PLANTS POOLS PER 100 SFED 20 ALITY
BATEY	220000000000000000000000000000000000000	C >

 	ICIGING	2000 11. 22. 21. 200 12. 22. 31. 22. 31. 31. 31. 31. 31. 31. 31. 31. 31. 31	0.04 0.09 0.03 0.03 0.03 0.05 0.00 0.00 0.00 0.00
1	PLANT HEIGHT	31.00 34.50 31.25 33.83 33.83 46.53 47.25 47.25 47.25 39.75 57.25 39.75 39.42 1.97	0.69+ 0.29+ 0.29+ 0.14 0.01 0.52+ 0.00 0.17+ 0.017
	NCDUIE WEIGHT 2	000000000000000000000000000000000000000	
9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	NODUIE WEIGHT 1	1.00 0.96 0.98 1.33 1.33 1.01 1.01 1.01 1.01 1.01 1.01	00000000000000000000000000000000000000
EBRUDARY, 19	NOBER 2	150.00 187.00 127.75 223.25 178.25 220.50 142.00 163.00 117.00 117.00 117.00 117.00 117.00 117.00 117.00 117.00 117.00 117.00	0.34 0.26 1.30 0.30 0.30 0.00 0.00 0.00 0.00 0.00
N - Z4 M E - 79 DEG VESTEL - F	NOEULE NUMBEE 1	112.75 121.53 121.53 123.33 155.25 165.25 135.25 135.25 130.25 120.25 147.00 147.00 18.25 18.25 18.25 18.25 147.00 172.57 18.25 18.2	0.05 1.00 1.00 1.00 0.26 0.34 0.00 0.00 0.01 0.01 0.01 0.02 0.03
CCOUNTRY ELEVATIO LCNGITUD AIRAINAM DATE HAR 08 NUS	DAYS TO	898.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 987.00 988.00 989.00 989.00 989.00 989.00 989.00 989.00 989.00 989.00 989.00 989.00 989.00 989.00	0.23 1.00 1.00 1.00 1.00 0.05 0.05 0.05 0.05
AN, K. THO3 1975 176, CLAY 2 176, K 49 6, HILL BC	C	30.000 30.000	1, 93 1, 93
12 MIN. N VEMBLE 11, VCM BLE 11, VCM A. S. I. I. VCM A. S. I. I. S. J. E. B. E. G. E. B. E. G. E	YIELD KG/HA	2514.67 23292.63 22266.70 22266.70 22266.70 22196.27 2077.50 1925.38 1839.95 1839.95 1839.95 1787.86 1746.18 1647.41 1596.15 1746.08	1.00 -0.14 0.23 0.05 0.36 0.36 0.36 0.36 0.36 0.36 0.36 0.36
ALAM ALAM B DEG. C S. C SAND SAND SED ( VARIET		LICAN  GRAND MEAN  GRAND MEAN  VARITY MEAN  OF VARIATION  (******=NS)	KG/HA FLOWER HATURITY NUMBER 2 WEIGHT 1 WEIGHT 2 BEIGHT 2 BEIGHT 2 BEIGHT 2 BEIGHT 2 BEIGHT 2 BEIGHT 1 WEIGHT 2 WEIGHT 0 WEIGHT 0
REGION - AS SITE - PUTT LATITUDE - CCOPINATCRS CATE PLANTEISOIL TYPE - FERTILIZER (SUBSTITUTE)	ಬ		YIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT PLANT PLANT POS SEED QUALITY
	VARIETY OF CROSS	7 DAVIS 6 ERAGG BRAGG 1 TRACY HARDEE 4 HILLIAMS 5 FORREST 6 FORREST 7 LMPROVED PER 7 LMMPTON 266 7 LMMPTO	
	RUTEY	13333333333333333333333333333333333333	

YEAR 1975

EXPERIMENT 658

QUALITY OF SEED	22.25 22.25 22.25 22.25 22.25 22.25 22.25 22.25 23.25 25 25 25 25 25 25 25 25 25 25 25 25 2	2.12 0.30 28.33% 0.85	-0.04 -0.04 -0.25 -0.25 -0.17 -0.26 0.00 0.00 0.00 -0.10 -0.10
100 SEED WEIGHT	18.73 20.007 20.05 19.18 16.73 17.25 17.25 17.25 17.25 17.25 17.25 17.25	19.51 12.16% 3.35	-0.21 -0.25 -0.25 -0.25 -0.13 -0.09 -0.27 -0.27 -0.27 -0.27 -0.00 -0.27 -0.01 -0.27 -0.01
PODS PER PLANT	15. 43. 43. 43. 43. 43. 43. 43. 43. 43. 43	16.64 1.19 14.32%	PROB=.05 -0.14 -0.14 -0.31+ -0.05 0.02 0.00 0.00 0.00 0.00 0.00 -0.03 -0.03
PLANTS	358.25 369.25 369.25 341.25 311.25 303.50 297.75 349.50 347.25 204.50	318.13 21.48 13.53% 61.31	(+ - 1) 0.46+ 0.04 0.04 0.06 0.20 0.20 0.17 0.27 0.00 1.38+ -0.28+
SHATTER		1.33 0.00 0.00%	8 8 0000000000000000000000000000000000
1 0 2 0 0 0 0 0		GRAND MEAN VARIFIY MEAN CF VAFIATION *******	K C A T I  K C A A  R C A A  R C A A  R C A A  R A T U B A  N U M B E B A  N U M B E B A  N U M B E B A  N U M B E B A  N U M B E B A  N U M B E B A  N U M B E B A  K E B E B A  K E B E B A  K E B E B A  K E B E B A  K E B E B B  K E B E B  K E B E B B  K E B E B  K E B E B  K E B E B  K E B E B  K E B
VARIETY OF CROSS	DAVIS BRAGG TRACY HARDEE WILLIAMS DOSSIER IMPROVED PELICAN FORREST PB-1 HILL JUPITER CIARK 63 S.J.2 HAMPTON 266A BONUS	RD EFROR OF A COEFFICIENT ARIFTY MEANS (	YIELD DAYS TO DAYS TO DAYS TO NCDULE NCDULE NCDULE NCDULE PLANT
BUTFY	12000000000000000000000000000000000000	STARES STAREA	

YEAR	
369	
EXPERIMENT	
136	
BLE	

		(BL)		1975						
COUNTRY - SRI LANKA	ELEVATION - 30 M	LONGITUDE - 79 DEG. 51 MIN.	NIMAL	DATE HARVESTED - SEPTEMBER, 1975		.1, K 66.6				NUS
REGION - ASIA	SITE - RATHMALAGARA	LATITUDE - 7 DEG. 23 MIN. N	COOPERATORS - K. KARUNANAYASA, A. SIRINIMAL	DATE PLANTED - JUNE 3, 1975	SOIL TYPE - SILT	PERTILIZER USED (KG/HA) - N 21.5, P 62.1, K 66.6	AMOUNT OF MOISTURE - 437 MM	NUMBER OF IRRIGATIONS - 4	LOCAL VARIETIES - PB-1, S.J.2	SUBSTITUTE VARIETIES - BRAGG, HILL, BONUS

ENTRY	VARIETY	YIRLD	1 1	DAYS TO	NODULE	0.0		F.	PLANT	1 1 1 2 2 3 4 5 7 8 8 8 8
NUMBER	OR CROSS	KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LODGING
2	HARDEE	684.30	34.00	97.00	15.75	50.25	0.08	. 2	30.00	1.00
12	WILLIAMS	587.62	27.00	89.75	18.00	50.75	0.05	0.28	27.23	1.00
5	BRAGG	518.02	29.00	101.50	21.25	64.75	0.05	. 2	27.83	1.00
-	HAMPTON 266A	515,10	29.00	99.50	10.50	41.75	0.02	-	23,85	1.00
8	PORREST	488,01	30.25	85.50	16.50	48.00	0.04	. 2	27 , 25	0
10	CLARK 63	477.18	34.00	90.25	13,75	24.25	0.07	. 2	33, 25	1.00
11	BONUS	L9°6hh.	28.75	101.00	22.00	54.50	0.07	. 2	22.46	0
6	HILL	438.00	29.00	83.00	9.50	18.00	0.04	۲.	28.60	0
m	IMPROVED PELICAN	428.63	35.00	100.00	23.50	66.75	0.09	~	35, 28	1.00
9	DAVIS	395,91	31.50	104.00	12.50	59.25	90.0	.2	23.24	1.00
13	PB-1	387,99	34.25	94.75	22.00	64.50	0.10	3 .	31,68	1.00
77	BOSSTER	375.07	32,25	100,50	14.50	37.00	0.04	. 2	26.96	0
7	TRACY	284.22	27.00	98,75	18,75	32.00	0.07	. 2	20.20	1.00
14	5.1.2	277.97	34.00	102.25	7.75	20.75	0.04	-	37.14	
	E C N A A A A A A A A A A A A A A A A A A	M 450	31.07	96.27	16, 16	45.18		0	28.21	1.00
CHRMDED		10 L	0.00	2 62	08.0	10.60			2,50	00-0
NAUNALC	OF VADTA		7 0 0	9	60.534	20 9 T		, 72	17.71%	800.0
5% LSD VA		*****	2.49	7.50	* * *	30,33	***	****	7, 15	0.00
		CORREL	ATION	S	(+ - PRO)	B=.05	++ - PROB=.	.01)		
	YIELD KG/H	1.	-0-	-0.29+	0.02	++0#*0	01		0.29+	0
	Dt.	0-		0.17	-0.01	-0-03			++0# 0	0
	¥	, O-	C	1.00	0.39++		0		-0.16	0
				0.39++	1,00		0		-0.09	00.0
		2	0	0.21			0		0.05	00.0
		1		0.29+	0.71++		1.00	0.57	0.04	0.00
		2 0.			0,39++				0.10	00.00
		HT 0.		- 1	-0.09	0.02		0.10	1.00	00.00
	-1	G 0.			00.00	00.00		00.0	00 0	1.00
	SHATTE	R 0.			00.00	00.00		00.0	00 0	00.00
	PLANTS HARVES	ST 0.33+	-0.05	0.01	0.02	0.17	-0.08	0.19	0.28+	00.00
	PODS PER PLAN	T 0.	+	1	-0.03	0.22		0.19	0.63+4	00.00
	100 SEED WEIGH	T 0.			0.14	0.07		-0.12	0.49+4	00.00
	QUALITY OF SEE	D -0.		1	-0.00	-0.03	,	+0°0-	-0.05	0.00
	DISEASE	I -0.26			+ 0.16	-0.02		-0.01	0.02	0.00
	DISEASE	II 0°00			00.00	00.00		00.0	00.00	0.00
		III -0.24		-0.16	0.08	-0.14	1	-0.07	-0. 19	0.00
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				† † † † †	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		\$ \$ \$ \$ \$ \$ \$

			-	00.00			00.00	00.00	00.00	00.00	00.0	00.0	0.00	00.00	0.00	00.00	00.00	1.00	00.00
	# 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 = 11	-0.26	0.354	0.16	-0.02	0.15	-0.01	0.02	00.00	0.00	0.01		-	-0.15	0	0.00	-
UED)	OUALITY OF SEED	**************************************	+ 50	-0.10	-0.18	-0.00	-0.03	-0.08	+0°0-	-0.05	00.00	00.00	+0°0-	-0.12	-0.17	1.00	-0.15	00.00	. 2
(CONTINUED)	100 SEED WEIGHT	13.24 17.45 16.68 16.97 12.32 17.55 17.57 17.57 18.28 11.01 15.01 0.90	(+ - PROB=.	0.00 -0.58++		0.14	0.07	+0°0-	-	\$ .	0	00°0	0	++0000-	0	-	-		0.04
YEAR 1975	PODS PER PLANT	14.45 7.05 6.05 7.43 9.52 10.28 8.92 14.18 8.92 14.18 8.50 9.78 9.25 11.98 42.83%	(	0.37++	-0.14	-0.03	0.22	0.10	0.19	0.63++	00 00	00 00		000	0	0	-0.12		-0.25
369 YE	PLANTS	199.50 198.25 198.25 196.25 197.50 199.25 199.25 194.00 194.25 196.88 2.47 2.47 2.47	0 ,	nin	0,	0	-	C	• 19	~	0	0	00.	0.32+	0	0	0	0 0	0.04
XPERIMENT 3	SHATTER	000000000000000000000000000000000000000	1 0	0.00	00.00	00.00	0.00	00.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	C) 6	0.00
136 EN	0 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	ALICAN GRAND MEAN VARIFTY MFAN OF VARIATION (******=NS)	D D	PLOWER		NUMBER 1				THOTAR	LODGING	SHAT	HAR	5	] 3≭ β	0 /	i	77.	III
TABLE	VARIETY OR CROSS	HARDEE HILLIAMS BRAGG HAMPTON 266A PORREST CLARK 63 BONUS HILL IMPROVED PELICAN DAVIS PB-1 BOSSIER TRACY S.J.2 GRAND STANDARD ERROR OF A VARIETY COPFFICIENT OF VARII	Y	DAYS TO	TO	NODULE	TINGON	NODON NOT NOT NOT NOT NOT NOT NOT NOT NOT N	HOUDING THE	2		C E	PLANIS	TOUS PER	DESTE DO	CUALITY	UISEASS	U C	V 5 B V
	FNTRY	12 11 10 11 11 13 4 4 7 7 14 5% LSD																	1 0 2 2 2 0 0 0

-0.24 -0.24 -0.16 -0.09 -0.09 -0.07 -0.07 -0.00 0.00 0.00 0.22 0.25 0.25

197	
至田為民	
372	
EXPERIMENT	
137	
TABLE	

LO.

	NODULE WEIGHT 2	1.09	0.50	1.33	0.70	0.58	0.39	1.49	90.	0.86	0.54	0.20	-	46.0	53.62%	0.72	01)						-0-18	00.0	0.00	0.0	-0.11	00.0	00.0	0000
. <u>.</u> .	NODULE WEIGHT 1	0.23	N =	0.47	0.06	0.11	0.27	0.26	NO	0.19	2	0.10	•		67.1		++ - PROB=.	0.10	0.15				0.0	00.00	00.00	0.13	-0.18	00.00		0.00
G. 2 MIN. E AUGUST, 197	NUMBER 2	147.25	OI B	206.50	87.25	105.00	63.25	167.00	403 75	112.00	69.25	42.00	7 - 1 - 2	118.43	45.43	78.45	PROB=.05			0.49+	1.00		1			0.24	1	00.00		
SRI LAN - 0.6 M - 80 DE ESTED -	NODULE NUMBER 1	44.25	24.50	93.00	18.00	11.50	27.75	35.75	31.50	31.75	38.50	16.50	00.77	40.52	30.00	28.55	(+ - PROB	0.20									,	0.00		0.00
COUNTRY - ELEVATION LONGITUDE DATE HARV 66.0, K 44.0	DAYS TO	113.00	91.00	113.00	105.00	110.00	95.00	98.00	105.00	125.00	105.00	112.00	•	105.40	5000	0.00	S	-0.24	1 00			-0.05						00.00		00.00
.0, P	DAYS TO FLOWER	4	27.00	43.00	36.00	29.00	27.00	29.00	29.00	30	35.00	41.75	•	33.58	1.15%	0.55	ATIONS	-0.04	1.00	0.43++	0.30+	0.15	0.47++	00.0	00.0	0.47++	-0.37++	00.00	000	00.0
THEUNELVELY  THERUNEL VELY  E - 9 DEG. 6 MIN. N  TOR - 1.S. SELVARATINAN  ANTED - MAY 13, 1975  PE - SANDY LOAM, PH 7.0  ZER USED (KG/HA) - N 22.  OF MOISTURE - 144 MM  OF PRIEGATIONS - 20  OF RRIEGATIONS - 20  OTE VARIETIES - PR-1, S.J.2	YIELD KG/HA	6053.75	9 5	5595.86	5386.26	5221.55	5114.94	4990.84	4871.05	4408.69	.7	3783.96		900	10.95%	768.41	ORREL	1.00	-0.04	0.20	0.29+	0.10	-0.15	00.00	0.00	0.15	0.15	00.00	00.0	. « 1
REGION - ASIA  SITE - THIRUNELVELY  LATTUDE - 9 DEG. 6 MIN. N  COOPERATOR - J.S. SELVARA  SOIL TYPE - SANDY LOAM, PH  FERTILIZER USED (KG/HA) -  AMOUNT OF MOISTURE - 144 M  NUMBER OF IRRIGATIONS - 10CAL VARIETIES - PH - 1, S.  SURSTITUTE VARIETIES - PR - 1, S.	6 6 8 8 8 8 8 8 8 8													GRAND MEAN	OF VARTATION	(SN=*******)	υ	KG/HA	FLONER MATHETEV	NUMBER 1	NUMBER 2	WRIGHT 1	WEIGHT Z	LODGING	SHATIER	PLANT	3	OF SEED	II	III
REGION - AS. SITR - THIR LATTHUDE - COOPERATUR DATE PLATUR - SOIL TYPE - FERTILIZER I NUMBER CF M NUMBER CF M NUMBER CF M SUBSTITUTE	VARIBLY OR CROSS		CLARK 63	BRAGG	BOSSIER	HAMPTON 266A	WILLIAMS	DAVIS	BONIS	JUPILER		IMPROVED PELICAN		9	CARD ERROR OF A VARIA			YIELD	DAYS TO	120 C		SIDGON			6	PODS PRR	100 SEED	OUALITY	DISEASE	DISEASE

49.25 65.00 66.00 86.00 86.25 38.25 38.25 38.25 66.50 66.50 98.00

LODGING

PLANT HEIGHT

ENTER

1.00

2.77 9.92% 7.91

STANDARD

TSD

2.0

YEAR 1975

n <u>=</u> :		SHATTER	HAPVFST	PLANT	WEIGHT	OF SPED	PROTEIN	OIL	
-	HARDEE	1,00	200.00	26 64	20 66	0	16.7	0 %	
	CLAPK 63	1.00	199.50	37.50	21.88		46.9	21.5	
14	PB-1	1.00	199.00	58.75	15 75		46.0	20.7	
۲ ،	BRAGG	1.00		35,50	20.75	00.00	48.1	21.4	
9:	BOSSIER	1.00	9	36.50	19,98	00.00	44.4	22.7	
<b>б</b> :		1.00	199.75	38.25	18,23	0.00	43.9	22.7	
2	HAMPTON 266A	1.00	199.25	42.75	24.58	00.00	43.5	25.9	
13	WILLIAMS	1.00	9.	35,25	20,13	00.00	43.0	23.5	
_	DAVIS	1.00	0	40.75	20, 18	00.00	45.1	21.2	
œ	TRACY	1.00		29.25	24, 18	00.00	47.4	20.0	
1.5	BONUS	1.00		35.75	22.40	00.00	45.0	23.0	
	JUPITER	1.00	199.50	41.00	22,38	00.00	45.5	24.2	
15	S.J.2	1.00	199.50	51,25	15,50	00.00	45.7	21.9	
<b>3</b>	IMPROVED PRLICAN	1.00	199.75	49.00	16.81	00.00	47.0	21.0	
0	HILL	1.00	199.75	27.00	21.49	00.00	47.0	19.5	
	GRAND	1.00	199.53	40.08	20.32	00.00			
STANDA	VARIE	00.0	0.42		0.62	00.00			
	COEFFICIENT OF VARIATION	0.00%		12.	6.08%	0.00%			
A TOTAL RA	SNEEDI GERRO (++++++++)	0.00	***	7.18	1.76	0.00			,
	υ	ORREL	ATION	cc	(+ - PROB=.	= 05 +	+ - PROB=.	01)	
	YIELD KG/HA	0.00	-0.04	0.15	0.15	0	00.00	00.00	0
	T 0	0.00	-0.03	0.47++			0	00.00	00.00
		00.0	0.10	0.16	0.05		_	00.00	0.00
	NUMBE	00.0	-0.15	0.37++	-0.3	00.00	00.00	00.00	00.00
	25	0.00	-0.07	0.24	-0.06	00.00	00.00	0	
	WEIGHT	00.0	90.0	0.13	-0.18	00.00	00.00	0	00.0
	E E	00.0	0.01	0.10	-0.11	00.00	00.00	00.00	0.00
	PLANT REIGHT	00.00	-0.04	0.34++	-0.41++	00.00	0.00	00.00	0 0
	LODGING	00.0	00.0	00.0	00.00	00.00	00.00	00.00	0.00
	S	1.00	00.00	0.00	0.00	00.00	00.00	00.00	0.00
	H	00.0	1.00	-0.11	0.03	00.0	00.00	00.00	0.00
		00.0	-0.11	1.00	-0.52++	00.00	00.00	00.0	00.00
	WEI	00.0	0.03	-0.52++	1.00	00.00	00.00	00.0	00 00
	QUALITY OF SEED	0.00	00.0	00.00	00.00	1.00	00.00	00.0	0.00
		0.00	00.0	00.00	00.00	00.00	1.00	00.00	00.00
	DISEASE	0.00	00.0	00.00	00.0	00.00	00.00	100	
								000	11/1 - 11/1

LOEGING	000000000000000000000000000000000000000	1.00	1.08 0.00 0.00% 0.00%	00.10
PLANT	69.25 49.25 44.25 44.25 66.50 69.25 73.00	0 0	55.06 3.53 11.95% 10.13	0.31 0.43 0.35 0.35 0.31
NCDULE EIGHT 2	2.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03	0.35	1.01 0.20 40.40% 0.58	0.25 -0.15 -0.11 0.25 0.42+ 1.00 0.33+ 0.13 0.13
NODULE FIGHT 1 W	00.000000000000000000000000000000000000	. n	0.29 0.06 42.42% 0.18	0.05 0.00 0.00 0.00 0.00 0.00 0.15 0.15
NCDULE UMBER 2 W	254, 75 63,00 63,00 191,25 191,25 91,25 159,00 150,00	0.0	92.12 19.08 41.42% 54.71	+ + + + + + + + + + + + + + + + + + +
NODULE UMBER 1 N	25.7.25 27.7.25 28.7.75 26.7.25 27.7.55 27.7.55 27.7.55 27.7.55 27.7.55		39.17 7.35 35.82% 20.12 (+ - PROB=	0.23 -0.23 -0.23 -0.26 -0.26 -0.03 -0.01 -0.01 -0.01 -0.01
DAYS TO	80 80 80 80 80 80 80 80 80 80 80 80 80 8		93.77 1.33 0.00%	-0.63++ -0.23 -0.23 -0.35+ -0.25 -0.25 -0.25 -0.25 -0.25
FLOWER M	00000000000000000000000000000000000000	36.00	34.54 0.00 0.00% 0.00 T I C N S	-0.65+ -0.23 -0.23 -0.15 -0.15 -0.10 -0.27 -0.27 -0.27 -0.27
Y11LE KG/HA	3771.59 3563.21 3563.21 3542.37 3094.37 2073.53 2771.59 1875.37		2675.05 330.75 22.49% 862.62	1.000 -0.633+ -0.23 0.25 0.25 0.05 0.05 0.16 0.04 0.03 0.03 0.03 0.03 0.03 0.03 0.03
		Z,	GRAND MEAN VARIETY MEAN OF VARIATION (*********	KG/HA FLOWER MATURITY NUMBER 1 NUMBER 2 NUMBER 2 NEIGHT 1 WEIGHT 2 HEIGHT 1 HEIGHT 2 HEIGHT 2 HEIGHT 7 HEIGHT 7 HEIGHT 7 HEIGHT 7 HEIGHT 7 MEIGHT 7 WEIGHT 7
VARIETY OF CROSS	2 6 6 A 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	IMPROVED PELICA. JUPITER	GIANLARD ERROR OF A VAR. COEFFICIENT OF '	YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANT PLANT PLANT PODS PER 100 SEED OUALITY
FNTEY	70009E2005	- ·	STANDAR EN LSI VA	

COUNTRY - SRI LANKA ELEVATION - 1 M LONGITUDE - 80 DEG, 2 MIN. E

YEAR 1975

EXPERIMENT 655

TABLE 158

DATE HARVESTEE - JUNE, 1976

P 29.0, K 36.5

REGION - ASIA

SITE - THIRUNELVELY

LATITUDE - 9 DEG. 6 MIN. N

CCCEFTATOR - J.S. SLIVARATNAR

DATE DEANTED - FEBRUARY 3, 1976

SCIL TYPE - SANDY LOAN

PERTILIZER USED (KG/AA) - N 22.0, P 2

AMOUNT OF YOISTIRE - 102 XM

NUMBER OF IRRIGATIONS - 22

SUBSILTUTE VARIETIES - BFAGG, HILL

LCCAL VARIETIES - PB-1, S.J.2

YEAR 1975

QUALITY OF SED	C00C0CC000C00	1.46 0.00 0.00 0.00 0.00 0.03 0.03 0.03 0.0
100 SIFD	166.00 10	18.51 1.98 % 1.98 % 1.98 % 1.08 % 1.00 %
PODS PER	35.1) 24.25 27.25 20.25 34.75 27.25 28.75 28.75 29.50 33.50 33.50	29.08 **24.28 **24.28 **24.28 -0.13 -0.13 -0.22 -0.22 -0.22 -0.22 -0.22 -0.22 -0.22 -0.22 -0.22 -0.22
PLANIS	295.50 270.75 289.75 282.75 283.50 257.00 224.50 2284.00 273.75 250.50	272.21 11.38 3.36% 3.36% 3.36% 0.13% 0.227 0.227 0.22 0.22 0.14 0.11 0.113 0.25
SHATIER	0.0000000000000000000000000000000000000	0.00 0 0.00 0 0.00 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Y VARIETY  FF OF CRCSS	PB-1 HARDEE DAVIS BPAGG CLARK 63 AAPTON 266A FCRRET WILLIAMS HILL BOSSIER S.J.Z IMPROVED PELICAN	ANLARD FEROR OF A VARIETY MEAN COFFICIENT CP VAFIATION SI VARIETY MEANS (************)  C C R F B L A T I C YIFLE KG/HA DAYS TO PLOYER NODULE NUMBER 1 NODULE WEIGHT 2 NODULE WEIGHT 2 PLANT HEIGHT 2 PLANT HEIGHT 2 PLANT HEIGHT 2 PLANT HARGHT 3 1) SEED KEIGHT 2 1) SEED KEIGHT 3 1) SEED KEIGHT 4 1) SEED KEIGHT 4 1) SEED KEIGHT 5 1) SEED KEIGHT 6 1) SEED KEIGHT 7 1) SEED KEIGHT 6 1) SEED KEIGHT 7 10 KEIGHT 7 10 KEIGHT 7 10 KEIGHT 7 10 KEIGHT 7 11 KEIG
FNTE	GWC A 5 G 8 E 2 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E 5 E 5	E II

YEAR 1975
324
EXPERIMENT
139
TABLE

COUNTRY - TAIMAN ELEVATION - 9 H LONGITUDE - 120 DEG. 17 MIN. E

DATE HARVESTED - OCTOBER, 1975

SITE - SHANHUA

SITE - SHANHUA

LITTUDE - 22 DEG. 30 MIN. N

CCOPERATOR - 5. SHANMUGASUNDRAM

DATE PLANTED - JULY 21, 1975

SOIL TYPE - SAND

RETILIZER USED (RG/HA) - N 15.0, P 100.0, R 150.0

AMOUNT CF MOISTURE - 1113 MM

LUCAL VARIETY - 2120

LODGING	2.00	1.00	1.00	1.00	1.50	1.00	1.00	1.00	1.00	1.75	1.00	1.00	1.00	1.00	1.00	1.15	0.10	16.79	0.28				+ 0.18				00.00		_		•		,	-0.19	0.05	-0.15	-0.21
PLANT	88,00	38.00	29 . 25	38.50	43.00	33.50	37,50	32,75	32.50	36.50	33,25	38.50	64.00	33,00	61.00	42.62	1.23	5.75%	3.50		0.28+	0.51+	0.66++	00.00	00.00	00 00	00 00	1. 00	0.50+4	00.00	-0.18	0.76++	-0.61+	0.01	90.0		-0.15
NODULE WEIGHT 2	0	00.0	0	0.	0.	0.	0.	0.	0.	0.	0	0	0.	0.	0	00.0	00.00	¥00°0	00.0	01)	00-0	00.00	00.00	00.0	00.00	00.00	1.00	00.00	00.00	00.0	00.00	00.0	00.00	00.0	00.0	00.0	00.00
NODULE WEIGHT 1	00-0	00.00	00.00	00.00	00.00	00.00	00 0	00.00	00 0	00.00	00 0	00.00	00.00	00.00	00.00	00 0	00.00	0.00%	00.00	.+ - PROB=.(	00.00	, C	00.00	0	00.00	1.00	00 0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00
NODULE NUMBER 2	00 0	00.00	00.00	00.00	00.0	00.00	00.00	00.0	00.00	00.0	00.00	00.00	00.00	00.00	00.0	00°0	00.00	%0000	00-0	9=,05 +	00.00	00-0	00.00	00.0	1.00	00.0	00 0	00.0	00.00	00.0	00.00	00.0	00.00	00.0	00.00	00.0	00.00
NODULE NUMBER 1	00-0	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.0	00.00	00.00	00.00	00.00	00-0	00 0	00.00	0.00%	00°0	(+ - PROB	00-00	C	00.00	1.00	00 0	00.00	0	0	00.00	00.00	0	0	0	00.00	00.00	00.00	00.00
DAYS TO	109-00	95.25	00°96	92.00	102.50	105.75	95.25	96.50	97.00	88.75	95.75	89.00	102.25	95.00	110.25	98.02	0.36	0.72%	1.02	S		C	1.0				0			00°0	-0.27+	0.54++	++69°0-	-0.00	-0.18	C. 10	90 0
DAYS TO FLOWER	4.4 - 75	34,00	36.00	31.50	46.75	46.75	32.00	41.25	35.00	30.75	38.50	29.50	47.75	40.50	00°67	38.93	09.0	3.10%	1.72	ATION			0.88++										1		1		
YIELD KG/HA	1975.81	0	1333,22	1292.47	1279.01	1256.00	1187.15	1177.03	1121.81	1057.46	959.82	918.64	873.55	638,29	474.93	h 8	9° 4	12,31%	=	ORREL	1.00	60-0-	0.11	00.00	00.0	00.00	00.00	0.28+	0.48++	00.00	0.05	0.65++	-0.07	++ #9 *0-	90.0-	-0.19	0.06
																GRAND MEAN	ETY MEAN	OF VARIATION	(SN=*******)	U	KG /HA	PLOUER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LCDGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	н	II	III
VARIETY OR CRCSS	2120	COLUMEUS	COBB	WILLIAMS	BOSSIER	HARDEE	CLARK 63	DAVIS	TRACY	WOODWORTH	FORREST	CALLAND	IMPROVED PELICAN	HAMPTON 266A		GR	STANDARD ERROF OF A VARIETY	COEFFICIENT OF V	LSD VARIETY MEANS (****		VIELD	OT SAG	DAYS TO	NODULE	NODULE	NODULE	NCDULE	PLANT			PLANTS	PODS PER	100 SEED	QUALITY	DISEASE	DISEASE	DISEASE
ENTRY	15	10	2	13	9	en	11	7	00	12	6	14	77	2	-		STANDA		5% LSD V																		

YEAR 1975

EXFERIMENT 324

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YEAR 1975
EXPERIMENT 446
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		PLANT		22.25						0	0					0	4	-	9.49%			. 17		• 47+				0		0000		.31+		00.00	0000
		NODULE EIGHT 2	77	3.6	0		S	9 :	3 0	د د	9 (4	, «	1	00	. 9	00	9	77.	22.16%	1		99.	200	ء د	9 .	.3	0.	20		. 2	3	0.	.2	0.0	00.00
	75	NODULE EIGHT 1 W	41	0.58	~	.5	េះ	. 7	o c	7.0	٠, د	7 = 3		.2	7.	. 2	77	- Com-		- PROB=.0		0	0,0	0.00 0.00	35	0	3	F (	00	20	} —	3	0	0	0.00
<u>е</u>	VEMBER, 19	NODULE UMBER 2 W	0	316.50	2.2	4.2	3.7	207	~ C	ი ი	) · L	- 10 - 10	5.7	5.7	1.0	3.7	9,1	31.2	25.10% 89.24 *	.05 ++		5.	) c	٠ ۲	0	. 3	9.	0.0	9 9	2 ~	. "	0		0,0	00.00
THAILAND - 185 M - 100 DEG	ESTED - NO	NODULE UMBER 1 N	ر. اد	143.50	5.7	4.5	3.0	1.2	3.5	0.0	- 0	 	5.7	2.0	8.2	6.2	80	5.8		(+ - PROB=		. 2	ه ا ب د	7.0	, 1	. 58	-	- "	0 0	2.0	0	0	0	0.0	00.00
COUNTRY - ELEVATION LONGITUDE	DATE HARV % PH 6.0	DAYS TO	0.11	91.00	2.5	0.0	4.2	5.2	0 0	) Q	000	. L	7.7	0.5	4.0	0.4	6	77 .	3.27%			.26	٠, د	٠ د	. 08	, 35	.31	7.	0,0	2 -	77	. 28	.31	0,0	00.00
ď.	ia 12%, CLAY 8 18°7, P 32	DAYS TO FLOWER M	. 0	33.00	0.6	8.2	4.5	8.2	7.0		200	8.0	5.0	8.7	8.2	0.6	77	0	6.42%	S N C		. 2	000	0.	. 0	-	• 2	.59	0.0	? "	0.6	.58	940	0.0	00.0
6	HAKUENWATAN GUST 8, 197 80%, SILT 1 KG/HA) - N E - 547 MM	YIELD KG/HA	7 00	999.37	10.6	66.8	11.0	68,9	32.6	000000000000000000000000000000000000000	71. 7	94.2	87.6	50.5	22.1	62.1	- 27	87.1	24.16%	R E L		0.	. 24	, c		. 20	9 .	٠. (	0, 0	2 4	.72	90.	. 2	0.0	00.0
SIA N KAEN 16 DEG	ED - T. C SAND USED (	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8															ND MEAN	TY MEAN	(*************************************		) 	KG/HA	FLOWER	MAMPED 4		WEIGHT 1	WEIGHT 2	HEIGHT	LODGING	SHATTER	PLA	WEIGHT	OF SEED	H	III
REGION - AN SITE - KHON - LATITUDE -	COOPERATOR DATE PLANTY SOLITIZER PERTILIZER AMOUNT OF I	VARIETY OR CROSS	B 44 C C C C C C C C C C C C C C C C C C	HAMPTON 266A	IMPROVED PELICAN	BOSSIER	DAVIS	TRACY	COBB			COLUMNO		CLARK 63		S.J.2	GRAND	RD FRROR OF A VARIE	Z			YIELD	201	DAYS TO E				PLANT		PLANTS	PO DS PER	100 SEED	QUALITY	DISEASE	DISEASE
		ENTRY	(	n (	7	9	7	ac i	r. 4	10	7 (	77	0	11	12	15		STANDARI	ISD V																

SHATTER HARVEST PLANTS PODS SHATTER HARVEST PL  0.00 126.25 29 C.00 128.00 18 C.00 140.50 14 C.00 143.50 14 C.00 128.00 15 C.00 143.50 14 C.00 128.00 15 C.00 143.50 14 C.00 128.00 17 C.00 128.00 14 C.00 128.00 17 C.00 17 C	1 1 1 0 1 0 1 0																												00.00		00.00		00.00	00.00	00.00	00.00	00.00	00.00	00.00	00 0	00.00	000		000	00.00
### WARTER WARTE	PERCENT		24 0		25. I	75.8	22.9	24 5	0.17	7.07	72.9	25.6	25.1	26.1	t 0.00	20.07	22.3	24.8	23.7	20.9							(1)																		
### WATTETY    HAPPTON 266A	PERCIENT PROTEIN		59 2	1 -	41.1	41.1	42.5	35.2	0.0%	0.60	23.65	40.4	39.6	28 0	0.00	0.00	41.6	39.1	43.9	42.1							KOB≃,																		
### VARIPTY ####################################	UAL		0					, -	13	) ( 6	٠ ١			0	, c	2 C	) t	ů.	1	0			ċ	9.03			+		-0.28+	++950-	-0.31+	-0.06	L 0 -	60.0-	-0.25	-0.26+	00.00	00.0	0.19	++ 10 0 0 -	0.24	1.00	00.00	00.0	0000
### OR CROSS #### OR CROSS ###################################	M 0 0		00	15		) (	٥	5	5.9	=	t (	9 1	8	6	0	. ~	٦ د	Ω (	0	5	1	٦,	• 59	06.	9 .	000	FRODE		0 U	0 0	0 0	$\rightarrow$ 0	200	500	200	2	$\sim$	<b>~</b> 1	$\overline{}$	17+	-	0.1	-	-	
### ### ### ### ######################	S PER PLANT		6	7	ي	0	0	å	3	=		٠.	÷	15.78	11,53	15.50	10.00	0 10 0	11.25	17,10	l.	ů		949	00			-	- 4	0 4	+ / t	0 0	7 (	0 0	φ n	7 0	$\supset$ (	0 1	_	00	424	+ 17 11	0	0	5
STANDARD ERROR OF A VARIETY  STANDARD ERROR OF A VARIETY MEAN  STANDARD ERROR OF A VARIETY MEAN  COEFFICIENT JP VARIATION  COFFFICIENT JP VARIATION  COEFFICIENT JP VARIATION	LANTS				32	0	0 0	0 7					07								3 7 0	2007	th :	2000	2 0	N C		011	10		ີ ຕ		000	, , ,	, c	0 0	20	÷ (	٠ °	- (	0	-	0	0	1
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WARTETY  UMPER OR CROSS  HARDEE  UMPROVED PELICA  HAMPTON 266A  UMPROVED PELICA  TOORS  TRACY  SOLUMBUS  COLUMBUS  C																					MFA				1			KG /HA	FLOWER	MATURITY	NUMBER 1	VIIMBER 2	FEIGHT 1	FEIGHT 2	HEIGHT	LODGING	CHATTED	HADURAM	DI ANG		TURTON	OF SEED	Н	II	111
NO TO	CROS	000000000000000000000000000000000000000	THE COLUMN		D PELICA	BOSSIFR	DAVIC	2 P	IRAC	CORE	JUPITER	WILLIAMS	O LEGISTIC	Company	CALLAND	FORREST	9	WOODWORTH	2 1 2		a c	OF A VA	TENT.	MEANS (***				LD	TO	0	JL E	E	80	P.	HE			U.	0	1 6	) b	H 1	1 E4	S)	ß
	ENTRY	~		7	7	Œ	7	c		2	-	13	0	4.0	t c	,		12	7			STANDA		% I.SD																					

YEAR 1975

EXPERIMENT 446

TABLE 140

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COUNTRY - THAILAND ELEVATION - 10 M	LONGITUDE - 99 DEG. 18 MIN. E	. BURANATHAM, P. JEWTRAKOOL, P. WONGSUKON	DATE HARVESTED - SEPTEMBER, 1975	CLAY 6%, PH 4.9	ELY 650 MM	
REGION - ASIA SITE - SURAT THANI	LATITUDE - 9 DEG. 7 MIN. N	COOPERATORS - J.K. TEMPLETON, W.	DATE PLANTED - JUNE 4, 1975	SOIL TYPE - SAND 82%, SILT 11%, CLAY 6%	AMOUNT OF MOISTURE - APPROXIMATELY	LOCAL VARIETIES - S.J.1, S.J.2

ENTRY	VARIETY		YIELD	DAYS TO	DAYS TO	NODULE	NODULE	NODULE	NODULE	PLANT	
NUMBER	OR CROSS		KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LODGING
3	HARDEE		1337.77	34.00	111.00	59.50	67.50	0.16	0.58	27.53	1.00
2	HAMPTON 266A		1162.73	35.75	98.50	48.50	60.50	0.16	77 T O O	20.00	1.00
5	COBB		1158,56	34.75	00.66	59.50	67.50	0.16	0.58	18,75	1.00
-	JUPITER		1154.40	43.50	118.50	47.75	29,75	0.09	0.24	51.05	1.00
6	FORREST		1066.88	33.75	97.50	31.50	71.25	0.07	0.35	25.30	1.00
7	DAVIS		1054,38	34.75	100.00	26.50	59,25	0.13	0.45	21.60	1.00
#	IMPROVED PELICAN	<b>1</b> 20	886.84	35,25	99.75	34.50	59.75	0.11	0.32	46.65	1.00
9	BOSSIER		779.32	33.25	100.00	58.00	67.00	0.16	0.38	17.90	1.00
8	TRACY		745.98	32.00	98.00	60.50	57.50	0.13	0,36	19,35	1.00
12	WOODWORTH		737.65	33.00	89.00	43.25	17.00	0.09	0.13	24,13	1.00
14	S.J.1		700.14	34.00	104.00	21.75	40.00	0.05	0.25	46.83	1-00
£	CLARK 63		662,63	29.75	90°20	25,25	21.75	0.03	0.11	20, 95	1.00
13	WILLIAMS		625, 12	31.50	95.00	43.50	35.00	60.0	0.28	21, 25	1.00
15	S.J.2		608,45	37.50	112.75	36.00	43,75	0.07	0.36	42,35	1.00
10	COLUMBUS		545.94	31.50	98.25	24.00	28.75	0.04	0.17	22.18	1.00
	Ü	GRAND MEAN	881.79	34.28	100,78	41,33	48.42	0.10	0.33	28, 39	1.00
STANDAR	STANDARD ERROR OF A VARI	VARIETY MEAN	184,18	0.76	2.77			0.04	60.0	2.28	00.00
	E	OF VARIATION	41.77%	4.41%	5.49%	38.55%	59.64%	68.31%	55.00%	16.03%	0.00%
5% LSD VA	LSD VARIETY MEANS (****	(********)	****	2.16			*	*****	0.26	6.50	00.00
		C	ORREL	ATION	S	(+ - PRO)	ROB=.05	++ - PROB=.0	01)		
	YIELD	KG/HA	1.00	0.24	0.03		0.57+		0.6	0.22	0.0
	DAYS TO	FLOWER	0.24	1.00	0.62+		00.00			0.54++	
	DAYS TO		0.03	0.62+	_		0.02		0	0.50++	00.00
	LE	NUMBER 1	0.21	0.05			0.30+			-0.17	00.00
	NODULE	NUMBER 2	0.57++	00.00		0.30+	1.00		0	0 0 04	00.00
	NODULE	WEIGHT 1	0.45++	ħ0°0		0.65+	+05.0 +		0.6	-0.10	00 0
	NODULE	WEIGHT 2	0.68++	0.03		0.41+	+ 0.79+		_	0.04	00.00
	PLANT	HEIGHT	0.22	0.54+	_	+ -0-17	0.04	•		1.00	00.00
		LODGING	00.00	00.00		00.00	00.00		0.0	00.00	1.00
		SHATTER	00.00	00.00		00.00	00.00		0	00 00	00.00
	PLANTS	HARVEST	0.57++	0.27+	0.12	0.20	0.35++	h 0.27+	0.38++	0° 30+	00.00
	PODS PER	PLANT	0.46++	0.07		0.06	0 41+		0	0.29+	00.00
		WEIGHT	0.06	-0.15	-0.19	0.11	-0.17		0	++9#*0=	00.00
	OUALITY	OF SEED	-0-34++	0.04	0.43+	+ -0.19	-0.28+	•	0 -	0.13	00 00
	DISEASE	H	++64.0-	-0.02	-0.03	90 -0-	-0.34+	,	-0-	-0.08	00 00
		H	00.0		00 00	00.0	00.0	00°0	0	00 00	00 0
	DISEASE	III	00.00	00.00	00.00	00.00	00.00	00.00		00 00	00 00

		SHATTER	HARVEST	PLANT	WEIGHT	OUALITY OF SEED	PERCENT PROTE IN	PERCENT OIL	
	HARDEE HAMPHON 2662	1.00	160.25	15.85	0	3.00	38.4	27.9	
		00.	193.25	14.30	3	3.00	42.6	26.0	
	STEPPEN.	000	177.50	10.78	9	3,25	43.6	24.8	
	FORBEST		175 50	10.88	18.68	00 * 7	44.4	24.6	
	DAVIS		170.05	000	n	3.50	40.1	25.7	
	IMPROVED PRITCAN		100	1.08	70 (	3.00	43.7	23.7	
	1	• •	100.13	18.03	$\infty$	3.00	44.2	24.1	
	3000 E	000	156.00	12.63	8	3.50	44.6	24.3	
0 [	LAACI	1.00	173.00	11.58	$\infty$	3.75	43.6	23.3	
	WOODWORTH	1.00	133,50	7.82	-	2.25	42.0	25.2	
		1.00	171.75	10.40	15,68	4.00	45.0	20.00	
	CLARK 63	1.00	147.25	10.25	00	2 C C	71.0	20.7	
~	WILLIAMS	1.00	147.00	7.70	2 (**	3 0 5	2 7 7	7.62	
15	S.J.2	1,00	167.00	13 80	12 10	02.60	44.0	24.5	
•	COLUMBUS	) <	000000000000000000000000000000000000000	00000	- (	3.50	45.4	22.7	
		•	143.00	11.43	200	3.75		24.8	
C N & F C	RAND	1.00	165.82	12.03	17.00	3, 33			
2 2 2 2 2	TENT OF T	0.00	4.75	1.76	0.57	0.31			
SE TOD I	OF VARIA	%00°0		29.26%	6.71%	18,38%			
2 2	MEANS (+++++	00 00	****	5.03	1.63	0.88			
	D	ORREL	ATION	ν,	(+ - PROB	=, 05 ++	- PROB=. (	01)	
	YIELD KG/HA	00.00	0.57++		90.0	-0-34++	9	00	
	DAYS TO FLOWER	00.00		0.07	-0.15	0.04	000		
	MATURIT	00.00	0.12	0, 15	-0.19	0 4344			
	NODULE NUMBER 1	00.00	0.20	90 0	0.11		20		
	NODULE NUMBER 2	0.00	0.35++	7-0	0		° -		
	WEIGHT	00.00	0.27+	0.29+	Ċ	16	1 1		
		00.00	0.38++		0-	1			
	PLANT HEIGHT	00.00	0.30+		-0-		00000		
	LODGING	00.00	00 0						
		1.00	00.00	00.00	00-0				
	PLANTS HARVEST	00.00	1.00	0.41++	-0.07	0000	7 1 0 2		
		00.00	0.41++		-0-01++		121.0	0000	
		00 0	0.7	9			° c	00.00	
		00.00		0	0000	000	10.23	00.00	
	DISEASE	00.0	2 2	00.00	0.0	000	10.01	0.00	
					00 00 0	10.0-	1.00	00.0	
								1	

YEAR 1975

EXPERIMENT 347

YEAR	
699	
EXPERIMENT	
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PABLE	

1975

	<i>⊷</i> i			
	HAN HGHN 16007 10007 10007	31.75 447.50 447.50 71.50 71.50 36.25 65.00	6.37.6	0.02 -0.06 -0.08 -0.08 -0.08 -0.51 -0.51 -0.51 -0.51 -0.51 -0.68
	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.47 0.43 0.58 0.58 0.51 0.51 0.00	3.0	0.048++ 0.059+++ 0.0500000000000000000000000000000000
	11.00000-1	0.000000000000000000000000000000000000	0.10 0.20% 0.20% 0.13 PFCB=.	0.42++ 0.42++ 0.72++ 0.05-65+ 0.02 0.03 0.31+ 0.34++ 0.05
RIL, 1976	NCDCLE UMEER 2 16.75 101.25 18.25 12.50 12.50 3.50 31.50	38.50 28.53 28.25 30.53 30.50 10.50 0.00	30.3 12.0 79.1 34.0 .05	-0.45++ -0.84++ -1.72++ -0.94++ -0.02 -0.02 -0.24+ -0.40++ -0.40++
- THAILAND N - 300 M ALRUT VESTEE - AP	EB 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	27-24-25-00	6.62 2.82% 8.79 - PRO 0.05	-0.557+ 0.84+ 0.734+ -0.02 -0.110+ 0.19+ -0.42+ -0.42+
COUNTRY ELEVATIO A. KANN DATE HAR OO. O	ATURITY 102.75 101.00 108.00 104.50 106.25 101.00 101.00	5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	3000 NW	10.00000000000000000000000000000000000
. SRINIVE 76 160.0, P 11 71, BC	0 M E E E E E E E E E E E E E E E E E E	401600000000000000000000000000000000000	0 0 - 0	
YINCHOL, ANDARY 6, 1 (KG/HA) - N RE - 110 MM RE - 110 MM RE - 5.3.1, 5.	KG/H KG/H KG/H KG/H KG/H KG/H KG/H KG/H	729		-0.25 0.00 0.16 0.32 0.32 0.32 0.03 0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05
ASIA AN FARM 15 DE RS - P. FED - J. ROSED ROISTU IRRIGA ETIES VARIE			AND MEA ETY MEA ARIATIO ****=NS KG/H FLOWE	MATURITY NUMBER 1 NUMBER 1 WEIGHT 2 WEIGHT 2 LODGING SHATHER HARVEST PLANT WEIGHT CF SEED
REGION - SITE - SUM SITE - SUM LATIUDE COPERATO DATE PLANGE SCIL TYPE PRILIZE AMOUNT OF NUMBER OF LOCAL VARI	VARIETY OR CROSS FORREST COLUMBUS DAVIS HARDEE S.J.S IMPROVED PF BCNUS PICKETT 711	NN 266A MS 266A RAA 633	NLARD ERROR OF A VACCEPTICION OF COEFFICIAN OF CANALITY NEANS (**  YIEL DAYS I	DAYS TC NODULE NODULE NODULE NODULE PLANT POES PER 1) SEED 2014111
	113 110 NEN 113 110 CT 114 CT 116 CT 117 CT 117 CT 117 CT 117 CT	712846413	S I S I S	

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1.32 0.22 34.00%

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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																																						
	PERCENT	21.9	22.2	24.6	23.1	19.9	23.9	21.8	23.8	19.4	25.5	23.8	21.0	23.7	17.6	25. 3	21.6	23.0	24.3	T - L -																			
	PERCENT	40.1	44.9	39.7	42.3	43.1	44.2	43.4	39.3	41.2	40.6	43.1	44.0	37.9	46.3	39.7	42.3	41.5	42.1	1																			
JED)	QUALITY OF SEED	2.00	3.75	2.75	3 - 25	1.75	1.25	4.25	3.50	00°h	3,75	4.75	00 * 17	3.00	1,75	3,75	3	00.4	, c	•	3.24	0,32	19.87%	0.91	ROB=.01)	•	- a	++00°6-	0 0 0 0	7 0 0	2° C	0.0		++00°01	10.	77.6	+ 6 C C C -	0.634	1.00
(CONTINUED	100 SEED WEIGHT	15,32	19,32	16.56	17.64	12.84	12.99	18.80	18,28	21.43	19,37	21,18	18.48	18,65	13,84	17.30	13.24	16.80	20.61	-	17.39	0.44	5.01%	,24	++ - PRO	0	2000	1000		# UC - C	-	0.00	+ + O		) U	7 - 0	10.01		0.65++
EAR 1975	PODS PER PLANT	35,75	28.50	29.75	40.00	34.00	44.75	26.75	18.00	24.00	28.25	25.75	30.00	36,25	34.00	25,75	51.75	61,25	36.75		33.96	3,9	m	1,25	PROB=.05	24 01		****		, 2	, c		L C	4 0	4	- 0	1000	2 ~	+ +
669 YE	PLANTS	205.25	194.50	218,75	108.75	185.00	214.50	174.50	223.50	150.25	148.25	159,75	128.75	195.00	277.25	127,75	136.50	36,75	16,75		159.54	5,93	6		+)	- 13	0 0	- (1	7 (	+ 17 - 0	3 6	0.06+	0.51++		0 0	10	2 0	0.31+	+68.0
FERIMENT	SHATTER	1.33	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.30	1.00	3.00	2.50	1.00	1.00	1,25	1.00		.2	0	6	<del>ر</del> ،	S N	C				. C		3.01	, (	0.01	1, 1)	0.294	0.06	-0.12	-0.22
TABLE 142 EX	ENTEY VARIET NUMBEE OR CRO	FCRREST		ا م	าน	S*D*S	ן ט	BONUS		HAMPTON	ין (י	CALLAND	POSSIER	: بد			1 JUPITE	11 CLARK 63			GRAND MEA	A VARLETY	CCEFFICIENT OF VARIATIO	SN=******)	CORRELATI	YIELD KG/HA	0	DAYS TC MATURITY	[2]	NCDULE NUMBER 2	NODULE WELGHT 1	II.i	PLANT HEIGHT	LODGING		PLANTS BARVEST	POES PER PLANT	100 SYEE WEIGHT	QUALITY OF SEED
•																							-	26	3 -														·

YEAR 1975	COUNTRY - HUNGARY	LCNGITUDE - 19 DEG. E	DATE HARVESTED - SEPTEMBER,	A) - N 50.0, P 230.0, K 100.0
TABLE 143 EXPERIMENT 392	REGICN - EUROPE	ATITUD	ED - M	R USED (KG/H

DATE HARVESTED - SEPTEMBER, 1975

ENTRY	VARIETY OR CROSS	YIELD KG/HA	DAY	S. TO CWER M	DAYS TO ATUBITY	NODULE NUMBER 1	NODULE NUMBER 2	NODULE Welght 1	NODULE WEIGHT 2	PLANT	LOCGING
24 77 77 10 10 13 13 12 8 STANDARI	HODGSCN SWIFT ALTONA BEESON WELLS AMSOY 71 HARK WOODWORTH CORSOY WILLIAMS BONUS CALLAND CLARK 63 GRAND ME	29563 29563 2446 2446 2171 2012 1879 1879 1879 1879 1771 1717 1717 1717		66.7.00 6.0	1126.00 126.00 126.00 126.00 126.00 126.00 126.00 126.00 127.00	74-70-70-70-70-70-70-70-70-70-70-70-70-70-	000000000000000000000000000000000000000			114. 138. 100 114. 25 126. 25 126. 25 126. 25 127. 25 127. 25 127. 25 127. 25 127. 38 2.37	33 737000000000000000000000000000000000
5% LSD VA	COEFFICIENT OF VARIATIVARIETY MEANS (******=N	S) 227.44 CCRREI	EI AL	%00°0		- 6. D	= 05	0.00% 0.00 ++ - PROB=	0.00% 0.00%	* 0 C C C C C C C C C C C C C C C C C C	34.98° 0.91
	YIELD KG/DAYS TO PLOWDAYS TO MATURINODULE NUMBER NODULE NUMBER NODULE MEIGHT PLANT HEIG PLANT HEIG PLANTS HERVE FOOS PER PLA 100 SEED WEIG QUALITY OF SE DISEASE I	HA 1,000  TY -0.85 + 1,000  2 0.000  2 0.000  HT -0.07  NG 0.05  HT 0.67 + 1,000  I -0.26  II -0.26  II -0.26		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.895 0.897 0.899 0.000	-0.32+ -0.30+ -0.30+ -0.00 -0.00 -0.00 -0.23+ -0.23	000000000000000000000000000000000000000			00.000	030000000000000000000000000000000000000

ENTRY	VARIETY	1	- Da -	FODS PER	100 SEEL	QUALITY	PERCENT	PERCENT	
SO SE CO	OR CROSS	SHATTER	HARVEST	PLANT	WEIGHT	S	PROTEIN	OIL	
77	HODGSCN	1.00	154.75	52.75	18.58	1.00	40.5	21 1	
7	SHIFT	1.00	140.75	45.85	19.78	2.00	39.6	10 7	
-	ALTONA	1.00	148.25	36.43	23.90	1.00	43.1	18.7	
7	BEESON	1.00	167.25	39.68	18.40	3.00	43.7	10.1	
100	WELLS	1.00	159.00	34.43	16.05	00 7	- V V V	10.1	
2	AMSOX 71	00-1	146.50	30 73	17 13		1 4	۲۰.۶	
~	2040	,			0 - 0 - 0	00.0	40.9	17.4	
,		00 * 1	132.13	3/030	18.70	00°t	45.6	17.5	
2 '	HT.MORGOOM	1.00	147.25	01.04	14.65	1.00	41.7	18.7	
9	CORSOY	1.00	169.50	45.68	15.60	00 %	44 1	17 2	
11	WILLIAMS	1.00	162.50	30.40	15.73	1.00	7.00	0.71	
13	BONUS	1. 00	165.50	27.55	14 70		n 0	19.0	
12	CALLAND	1 00	1/10 25	21 60	0.00		to. 4	18.4	
o	CTABE 63		2000	000000	00.00	7.00	47.0	19,2	
	٥	00 -	125.50		12.83	2.00	42.5	18.6	
	GRAND M	MEAN 1.00	152.44	(4.	17, 18	2 63			
STANDA	STANDARD ERROR OF A VARITTY M		00 2	)		70.7			
	9 8		0000	,	0.43	0000			
	20		9.57%	17.	5.02%	800.0			
5% LSD V	LSD VARIETY MEANS (********S)	NS) 0.00	20.96	5	1.24	00.00			
		CCRREL	ATION	S	(+ - PROB=	+ 50*	+ - PROB=.01)	11)	
	ELD	0	0.03	0.51++		-0.19	0.41++	-0.26	
	To	0	0.06	-0.33+		0.27	++67-0-	0.444	
	DAYS TO MATUR	0	-0.08	-0-33+		0.18	++0770-		
		0	0.21	-0-03	-0.39	0.01	+0 23	77.0	
	NODULE NUMBER	0	00.00	00.00			200		
	6,36	1							
							00.00	00.0	
	E .	200	00.0	0000	0000	00.00	00.0	00.00	
		0	-0.03	0.14	-0-38++	0.29+	0.18	0.03	
	LCDG	0	-0.12	C. 11	0,25	0.04	0.07	-0.16	
	SHAT	-	00.00	00.00	00 00	00.00	00.00	00-0	
	PLANTS HARVEST	0	1.00	-0,23	-0-03	0.19	-0.01	0.23	
		0.	-0.23	1.00	0.19	-0.15	0-20	-0 31+	
	SD N	0.	-0.03	C. 19	1.00	-0.20	0.41++	-0.38++	
	TY OF S	EED 0.00	0.19	-0.15	-0.20	000	-0.06	0.16	
	3.5	0	-0.01	0.20	0.41++	-0.06	300	1744	
	DISEASE	II 0.00	0.23	-0 31+	. 0				

YEAR 1975

EXPERIMENT 392

YEAR 1975	
397	
EXPERIMENT	
144	
TAREE	

	PLANT	114, 25 107, 25 107, 25 109, 25 113, 50 109, 25 1120, 50 120, 50 117, 25 117, 25 117, 25 117, 25 117, 25 117, 25 117, 25 117, 25 118, 00 10, 61 12, 57 12, 57 12, 57 11, 00 15, 10 10, 25 11, 00 10, 25 10, 2	0.00 0.00 0.00 0.00 0.00 0.00
	NODULE WEIGHT 2	1.96 3.67 3.67 3.67 3.67 3.94 4.39 3.93 4.13 3.88 3.88 3.88 4.07 4.07 4.07 4.07 4.07 6.03 6.04 6.03 6.04 6.00 6.01 6.00 6.01 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01 6.00 6.01	0.00
1975	NODULE WEIGHT 1	**  10.57  11.08  11.08  11.072  11.072  11.072  11.072  11.072  11.073	0.00
33 MIN. E RPTEMBER,	NODULE NUMBER 2	248.25 248.25 234.25 178.75 199.00 273.75 215.50 305.25 261 223.55 283.55 283.55 283.55 293.65 10.20 0.20 0.31 0.31 0.013	
TTALY - 80 M - 8 DEG. ESTED - S PH 7.9	NODULE NUMBER 1		0.00
CCOUNTRY ELEVATION LONGITUDE DATE HARV AY 25.0%,	DAYS TO	144,000 145,000 144,000 134,000 139,000 139,000 145,000 145,000 145,000 152,000 152,000 152,000 153,000 164,000 164,000 160,00	0.00
19.6% 95.9 CI	DAYS TO FLOWER M	46.50 47.50 47.50 64.50	000000
SARDINIA EG. 43 MIN. N RIVOIRA JUNE 6, 1975 D 55.4%, SILT (RG/HA) - P STIONS - 9	YIELD KG/HA	4734,28 44382,13 42342,13 4240,70 4260,44 40404,48 40404,88 39440,79 3940,79 3940,79 3940,79 461,50 461,50 461,50 8,20% 461,50 1,00 1	0.25
SASSAPI, SASSAPI, E 40 DI ATTE 6. PE SANI ZER USED OF MOTST	 	GRAND MEAN *****=NS)  ******=NS)  ******=NS)  ******=NS)  ******=NS)  ******=NS)  *******=NS)  *******=NS)  ********=NS)  ********=NS)  ************  *********************	PLANT WEIGHT OF SEED II
RFGTON SITE LATITUD CCOPERA DATR 21 SOIL TY PERTILITY NUMBER	VARIETY OR CROSS	AMSOV 71 HARK HODGSON WILLIAMS WOLDWORTH CORSOY CLARK 63 BONUS CALLAND SWIFT ALTONA COLUMBUS COLUMBUS COLUMBUS TELD DAYS TO NODULE NODU	PODS PER 100 PER QUALITY DISEASE DISEASE
	ENTRY	5 STANDA STANDA	

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		- PROB=.		
OF SEED 1.50 1.25 1.25 2.75	22 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2.18 0.44 40.69% 1.27 ++	-0.25 -0.14 -0.14 -0.02 -0.03 -0.03 -0.03 -0.03	
2.74 7.94 0.73	223 199. Et 73 173. 184 173. 184 187. 53 187. 53 77	20.38 0.55 5.35% 1.56 (+ - PPOB=	000000000000000000000000000000000000000	00.00 00.00 00.00 00.00 00.00 00.00
	79,92 44,00 49,55 49,05 54,10 44,50 27,17	42.84 4.37 20.387 12.48	0.26 0.20 0.20 0.01 0.01 0.01	000000000000000000000000000000000000000
25 25 25 25 25 25 25 25 25	220.25 187.25 212.75 193.25 220.25 198.50 192.00	199.75 8.83% 25.19	0.23	0.00 0.00 0.00 0.00 0.00 0.00 0.00
SHAHT 1.00	000000000	1.00 0.00 0.00% 0.00	000000000000000000000000000000000000000	
		AND MEAN ETY MEAN APTATION ****=NS)	RG/HA BLOWER MATHRITY NUMBER 1 WEIGHT 2 WEIGHT 2 FEIGHT 2 LOGGING	SHATTER HARVEST WPIGHT OF SEED II
VANJETI AMSOY 71 ARK HODGSON WELLS BEFSON	WILLIAMS WOODNORTH CORSOY CLARK 63 SONUS CALLAND SWIPT ALTONA	GRASTANDARD ERPOR OF A VARIET OF US VARIETY WEANS (*****	DAYS TO DAYS TO DAYS TO NODELE NODELE NODELE PLANT	PLANTS PODS PRED 100 SRED OHALITY DISRASE DISRASE DISRASE
NOW SERVICE STATE	12 11 11 11 11 11 11 11 11 11 11 11 11 1	STANDAR 5% LSD VA		

1975
YEAR
396
EXPERIMENT
145
LABLE

	LOD		** * *	
	PLANT	73.75 73.75 62.50 82.75 53.75 78.75 78.75 98.75 96.00 96.25	73.29 3.47 9.47% 9.97	0.16 0.33+++++++++++++++++++++++++++++++++++
	NODULE WEIGHT 2	1,59 1,59 1,59 1,59 1,59 1,59 1,59 1,59	2.88 1.12 77.49% 3.21	0.38*+ 0.38*+ 0.36*+ 0.91*+ 0.091*+ 0.091*+ 0.098
1975	NODULE WEIGHT 1	00 00 00 00 00 00 00 00 00 00 00 00 00	0.89 0.32 71.32% 0.91 + - PROB=	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
17 HIN. W EPTEMBER,	NODULE NUMBER 2	620.00 885.00 530.00 717.50 600.00 912.50 572.50 610.00 1147.50 1150.00	752.50 161.83 43.01% 464.81	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SPAIN - 600 H - 3 DEG. ESTED - S	NODULE NUMBER 1	460.00 327.50 492.50 275.00 227.50 520.00 427.50 340.00 695.00 545.00 545.00	419.42 102.05 48.66% 293.11 (+ - PROB	0.11 0.20 0.20 1.00 0.45 0.84 0.31 0.31 0.01 0.01 0.00 0.00 0.00 0.00
COUNTRY—ELEVATION LONGITUDE A. VICENTE DATE HARY	DAYS TO	138.50 140.00 137.75 138.75 143.00 140.00 150.25 118.00 150.75	138.35 0.97 1.41% 2.79	0.32+ 1.00 1.00 1.00 0.28+ 0.28+ 0.28+ 0.14+ 0.21+ 0.00 0.00
A. BUENO, 25.0, P 12	DAYS TO PLOWER	51.00 52.25 52.25 50.50 60.75 51.25 53.00 50.75 60.75 61.00	53.42 0.84 3.16% 2.43 T I O N	-0.06 -0.06 -0.20 -0.20 -0.28 -0.12 -0.13 -0.12 -0.00 -0.00 -0.00
MIN. 1975 8.0 8.0 131 HR	YIELD KG/HA	2872.66 2844.74 2826.82 2586.35 2552.18 2552.18 2543.41 2343.80 2328.80 22144.60 2144.60	2419.27 97.82 8.09% 280.95 0 R R E L A	00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00
ROPE 10 10 10 10 10 10 10 10 10 10			AND MEAN ETY MEAN ARIATION ****= NS)	RG/HA FLOWER MATURITY NUMBER 2 NUMBER 2 NUMBER 2 NUMBER 2 NEIGHT 1 WEIGHT 1 LODGING SHATTER HARVEST PLANT WEIGHT 0 STATTER
REGION - EU SITE - MADR LATITUDE - COOPERATORS DATE PLANTE SOIL TYPE - PERTILIZE - AMOUNT OF M		_ =	GRAND IF A VARIETY INT OF VARIA INS {*******	TIELD DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANTS PODS PER 100 SEED OUALITY DISRASE DISRASE
	VARIETY OR CROSS	AMSOY 71 WELLS CORSOY HARK WOODWORTH HODGSON BEESON CALLAND SWIPT WILLIAMS BONUS CLARK 63	STANDARD ERROR OF A COEFFICIENT LSD VARIETY MEANS	σ. <del>←</del>
	ENTRY	28986047771166	STAND 5% LSD	

1.10 0.18 31.98% \*\*\*\*\*\*

11.00 1.1.00 1.255 1.00 1.00 1.255

LODGING

					000000000000000000000000000000000000000
	PERCENT	200.3 200.3 18.0 19.2 19.2 19.2 19.3 19.5 19.5 19.5		01)	
	PERCENT	37.9 388.1 38.8 38.8 37.3 41.8 41.8 35.0 35.0 45.1 45.1 45.3		- PROB=.01)	000000000000000000000000000000000000000
UED)	QUALITY OF SEED	2.00 2.00 2.00 2.00 2.00 1.25 1.25 2.00 2.00 2.00	2.06 0.20 19.13%	=- 05 ++	-0.44 -0.16 -0.16 -0.16 -0.29 -0.23 -0.02 -0.03 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00
(CONTINUED)	100 SEED WEIGHT	14,75 13,25 13,25 13,25 13,25 17,00 16,25 16,25 16,25 16,25 16,25	14.23 0.44 6.15%	(+ - PROB=.	-0.05 0.03 0.03 0.04 0.05 0.01 0.01 0.00 0.00 0.00
YEAR 1975	PODS PER PLANT	33.45 32.90 32.90 35.73 25.83 25.68 22.68 22.68 29.85 29.85 20.85	30.15 5.41 35.89% ******	S	0.27 0.23 0.23 0.23 0.00 0.00 0.00 0.00 0.00
396 Y	PLANTS HARVEST	200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00	200.00	ATION	000000000000000000000000000000000000000
EXPERIMENT 3	SHATTER	1	1.02 0.07 13.61% ******	ORREL	-0.01 -0.17 -0.17 -0.17 -0.07 -0.07 -0.07 -0.07 -0.07 -0.07 -0.07 -0.07 -0.07
145 E			GRAND MEAN VARIETY MEAN OF VARIATION (*******	υ	KG/HA PLOWER NATURITY NUMBER 1 NUMBER 1 NUMBER 1 REIGHT 2 REIGHT 2 REIGHT 2 REIGHT 0 REIGHT 0 PLANTER PLANTER OF SEED II
TABLE	VARIETY OR CROSS	AMSOY 71 WELLS CORSOY HARK WOODWORTH HODGSON BERSON CALLAND SWIFT WILLIAMS BONUS CLARK 63	ARD ERROR OF A COEFFICIENT VARIETY MEANS (		YIELD DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANTS PODS PER 100 SEED OUALITY DISEASE DISEASE
	BNTRY	22274725683	STAND 5% LSD		
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YEAR 1975
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	ING	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	00.	.07	00.	0.00%		.05	* C C *	60°	. 19	. 12	.16	+ 00 •	.34++	. 15	.57++	.35++	* 40 ++ 25	. 16	00.
	TODGI	5	m c	3 6	#	2 6	, =	77	77	7	- (	T) 27	e				0.05		0	0-	0	0	÷	0-	0	C	0 0	+		0
	PLANT	150.00	115.75	121.00	135.00	138.75	118.75	132.75	136, 50	126.25	119.25	127.25	127.38		3.27%		0.25	0.00	-00 00	-0.13	0.18	-0-10	0.50	-0.23	0.17	0.18	-0-19	0.04+	0.16	0.00
	NODULE WEIGHT 2		0	0 0		0	0 0	0		9	0	5.59	5.64	-	42.65%	01)	0.03	0 00	0.30	0	0	~ <	0 10	0.28+	-0.08	-0.05	20.0-	90.0	20.0	00.0
1975	NODULE WEIGHT 1	-	1.49	. m	0.	9, 1	. 9	.7	9.	-,	9	1.22	1,35	0.36	52.49%	+ - PROB=.	0.04		71+	0.36++	00			n 0					9 1	
STEMBER,	NODULE NUMBER 2	e	-	° °	6	o -	- 00	*	2	e l	0	294.00	7	78.95	4******	=.05 +	0.17	•	+ 12 - 0			0.88	1 1		1	1				
YUGOSLAV - 80 M - 19 DEG SSTED - S	NODULE NUMBER 1	172.25	114.50	108.50	109.00	104.50	149.00	119.00	145.75	115.75	191.75	118.00	131.93	23.77	36.03%	(+ - PROB:	-0.02	0.01	1.00	0.27+	0.71++	0°30+		-0.11	-0.03	0.07	0.01	0.00	000	00.00
CCUNTRY - CLEVATION LONGITUDE DATE HARVI	DAYS TO ATURITY	39.2	129.25	1 01	0	~ ~	0.1		O.	0	~ ,	170.50			0°94% 1°93 ×		-0.25	++00°0	-0.27+	-0.34++	o	-0.29+	0.18	-0.32+	0.17	0.41++	65	0.43++	- 0	0.00
30.0, P 60 KASNA	DAYS TO FLOWER M	39.50	37.25	38.75	39.00	41.00	37.25	38.00	48.25	52.00	37.00	61.00	L)	.19	0.55	TIONS	-0.43++	0001		-0.26				-0.37++	-0.16	++69.0	-0.62++	0.25	10.15	
3. 20 MIN. N DAN BELIC AY 6, 1975 PH 8.1 (KG/HA) - N RE - 416 MM	YIELD KG/HA	656.	271.	116.	110.	053.	727.	347.	292.	159.	6/2.	2653.45	80.3	.99	12.01%	ORRELA	1.00	<b>+</b> (	0.0	Seren	0	0 (	$\vee$ $\subset$	3	3	3	ء رب	_ (	) K	0
ROPE SAD 45 DE(45 DE(10) 10 - MJ SILT USED OISTUES	T												GRAND MEAN	VARIETY MEAN	T OF VARIATION (*******NS)	ပ	KG/HA	FLUMER	NUMBER 1		EIGHT	WEIGHT 2	TODGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	T 1	III
REGION - EU SITE - NOVI LATITUDE - DATE PLANTE SOIL TYPE - FENTILIZE R MOUNT CF M LOCAL VARIE	1 1 1 1 1 1												GR		E		YIELD		) E			E 6	FLANT		PLANTS	S PER	100 SEED	OUALITY	DISEASE	DISEASE
	VARIETY OR CROSS	CORSOY	HODGSON	BEESON	HARK	AMSOY 71	SWIFT	BELI FOUR		CLARK 63	ALTONA	COLUMBUS		STANDARD ERROR OF A	COEFFICIENT LSD VARIETY MEANS		c c	D. S.	2	2	Z	Z			57	DOD	100	200	ות דכ	DI
	ENTRY	9	at 0	0 ~	3	رن <del>د</del> م	2	13	14	10	- 0	9		STANDAL	5% LSD VA															

SHATTER HARVEST PLANT WEIGHT OF SEED PROTEIN OIL  0.00 145.00 73.00 18.60 3.00 42.5 20.7  2.00 144.75 43.00 18.60 3.00 42.5 20.0  0.00 144.75 43.25 24.05 1.00 39.8 20.0  0.00 144.75 43.25 20.45 2.00 40.9 20.0  1.00 163.00 44.35 20.45 2.00 40.9 20.0  1.00 163.00 44.35 20.45 2.00 40.9 20.0  1.00 173.00 66.25 17.13 1.00 41.2 20.0  0.00 187.00 189.25 20.13 1.00 44.2 20.0  1.00 187.00 89.25 17.83 1.00 44.2 20.0  1.00 187.00 89.25 17.83 1.00 44.2 20.0  1.00 187.00 89.25 17.90 1.00 41.2 20.0  1.00 187.00 89.25 17.90 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	CORSOY HODGSON HELLS BERSON HARLS BERSON HARLS BERSON HARL HODGSON HARS O.00  SWIPT RELI FOUR RASNA ALTONA WILLIAMS COLUMBUS GRAND HEAN COEFFICIENT OF A VARIETY MEAN COEFFICIENT OF WARIETY MEAN COEFFICIENT OF WARIETY NO.00  LSD VARIETY MEANS COLUMBUS  TIELD FROMER 63 ALTONA WILLIAMS O.00  TIELD FROMER 63 ALTONA WILLIAMS O.00  COEFFICIENT OF WARIETY NO.00  COEFFICIENT OF WARIETY NO.00  COEFFICIENT OF WARIETY NO.00  COEFFICIENT OF LOWER O.00  COEFFICIENT OF LOWER O.00  COLUMBUS  COLU		PLANTS	PODS PER	100 SEED	OUALITY	PERCENT	PERCENT	0 0 0 0 0 0 0 0
HOUSEN HOUSEN HOLESON 175.00 175.00 18.60 3.00 42.5 20.7 HOLESON HOLES	CORSOY HODGSON HODGSON HELLS BEESON HARK AMSOY 71 NOODWORTH SWIPT RELI FOUR KASNA CLARK 63 ALTONA WILLIAMS COLUMBUS  STANDARD ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATION COEFFICIENT OF VARIAT	ATTE	ARV	est.	EIGH	OF SEED	PROTEIN	OIL	
PELLS   PEDGGON   PELLS   PEDGGON   PELLS   PEDGGON   PELLS   PEDGGON   PELLS   PELL	HODGSON HELLS HELLS HARK AMSOY 71 HARK AMSOY 71 HARK AMSOY 71 HODGROTH CLARK 63 CLONDUC WILLIAMS COLUMBUS COLUM	0.00	175.00	0		3.00	42.5	20.7	
PRESENT PRELIS PRESENT P	##PLLS ##PLLS ##SOY 71 ##OODWORTH ##OOODWORTH ##OOOODWORTH ##OOOODWORTH ##OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	2.00	165.00	7		1,00	39.1	22.6	
HERSON HARRY HARR HARR HARR HARR HARR HARR HAR	HARK HARK HARK HARK HARK HASOY 71 HOODWORTH HELL FOUR HELL FOUR HALLAMS COLUMBUS  STANDAED ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATION COEFFICIENT OF VARIATION COEFFICIENT OF PLOWER LSD VARIETY HEANS  TIELD FLOWER  COLUMBUS  STANDAED ERROR OF A VARIATION COEFFICIENT OF VARIATION COEFFICIENT OF VARIATION COEFFICIENT OF VARIATION COEFFICIENT OF LOWER COEFFICIENT OF LOWER COEFFICIENT OF AUTHERTY NODULE WEIGHT 1 COEFFICIENT NODULE WEIGHT 2 COEFFICIENT NODULE WEIGHT 1 COEFF	00.00	184.75	43.00		1.00	41.8	20.2	
## MASON 71    MASON 71   MASON 7	## A M M M M M M M M M M M M M M M M M M	00.00	181.50			1.00	39.8	21.0	
##STATE ##STAT	AMSOY 71  WOODWORTH  WOODWORTH  CLARK 63  CLOURBUS  COLUMBUS  COLU	00.00	169.75			2.00	42.9	20.2	
NOTIFIED	WOODWORTH  WOODWORTH  SWIFT  REASNA  CLARK 63  ALTONA  WILLIAMS  COLUMBUS  GRAND MEAN  COLUMBUS  STANDAED ERROR OF A VARIETY MEAN  COEFFICIENT OF VARIATION  COEFFICIENT OF SEED  COCOUNTY  COCO	1.00	163.00			2.00	40.9	20.4	
## STATE OF THE CONTRIBUTION	SWIFT RELI FOUR RAIL FOUR RAIL FOUR RAILIAMS COLUMBUS  STANDARD ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATION COEFFICIENT OF OO 31  NODULE WEIGHT 1 COEFFICIENT OF OO 32  NODULE WEIGHT 1 COEFFICIENT OF SEED COEFFIC	00.00	169.00			1,00	41.0	20.3	
RELEAURE OF PARTIES   RELEAURE OF CALARK 63   LOGIC MASTA	KASNA CLEANS CLUMBUS STANDAED ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATION COEFFICIENT OF SEED COEFFIC	1.00	163.25	48,25		1,00	30.5	22:2	
CLARK A	CLARK 63 CLARK 63 CLARK 63 ALTONA WILLIAMS COLUMBUS COLUMBUS  STANDAED ERROR OF A VARIETY MEAN COEFFICIENT OF VARIATION COEFFICIENT OF SEED COEFFICIENT OF SEED COEFFICIENT OF SEED COEFFICIENT COEFFICIENT OF SEED COEFFICIENT	00.00	171.50	62,75		1.00	42.5	20.2	
TATIONA  ALTONA  ALTONA  ALTONA  HILLIAMS  COLUMBUS  COL	COLUMBUS  STANDAED ERROR OF A VARIETY MEAN  COEFFICIENT OF VARIATION  COEFFICIENT OF NEWER  COEFFICIENT OF TEOMER  COEFFICIENT OF TEOMER  COEFFICIENT OF SEED  COEFFICIENT OF	00.00	178.00	66,25		1.00	41 7	10.6	
## ALTONA ## ALT	ALTONA WILLIAMS COLUMBUS  GCOLUMBUS  GCOLUMBUS  GRAND MEAN  COEFFICIENT OF VARIETY MEAN  COEFFICIENT OF VARIATION  COEFFICIENT OF RE L A  TIELD  RECHA  NODULE WEIGHT  NODULE WEIGHT  NODULE WEIGHT  O.27+  NODULE WEIGHT  O.28+  PLANT  PLANT  HEIGHT  O.34+  COALITY  OF SEED  O.17  DISEASE  III  O.38++	00.00		89.75	0	000	41.2	21 1	
TANDARD ERROR OF A VARIETY MEAN  COEFFICIENT OF VRIATTON  COEFFICIENT O	COLUMBUS  COLUMBUS  GRAND MEAN  COEPFICIENT OF A VARIETY MEAN  COEFFICIENT OF VARIATION  COEFFICIENT OF COEFFICENT  NODULE WEIGHT 1  NODULE WEIGHT 1  NODULE WEIGHT 1  COEFFICIENT OF COEFFICENT  COEFFICIENT OF COEFFICENT  COEFFICENT OF COEFFICENT  COUNTY OF COEFFICENT  COE	00.00		49.25		1.00	42.3	20.1	
COLUMBUS  GRAND HEAN  GRAND HEAN  GRAND HEAN  COEFFECIENT OF VARITATION  COEFFECIENT OF COOR  LSD VARIETY HEANS (************************************	COLUMBUS  GRAND MEAN  COEFFICIENT OF VARIETY MEAN  COEFFICIENT OF VARIATION  COEFFICIENT OF VARI	00.00		47.25	9		43.4	10.01	
TANDARD ERROR OF A VARIETY MEAN  CCEPTCIENT OF VARIETY MEANS  CCEPTCIENT MEANS  CCEPTCIENT OF VARIETY MEANS  CCEPTCIENT MEANS  CCEPTC	GRAND MEAN  COEFFICIENT OF VARIETY MEAN  COEFFICIENT OF VARIATION  COEFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEF	_		92.00	-		44.2		
TEANDARD ERROR OF A VARIETY MEAN  COEFFICIENT OF VARIETY MEAN  VIELD  V	COEFFICIENT OF WARIETY MEAN  COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT OF RE L A  WODULE NUMBER 1  WODULE NUMBER 1  WODULE WEIGHT 1  WODULE WEIGHT 1  WODULE WEIGHT 1  COEFFICIENT HEIGHT -0.23  PLANT HEIGHT -0.23  PLANT HEIGHT -0.23  PLANT HEIGHT -0.27  PLANT HEIGHT -0.34+  SHATTER 1.00  PLANT HEIGHT -0.37+  OUGLITY OF SEED -0.17  DISEASE II 0.38++	0	œ	ش	19,30				
COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT COEFFICIENT OF VARIATION  COEFFICIENT OF VARIATION  COEFFICIENT COEFFICIENT O.00 12.41 6.88 0.52 0.00  VIELD KG/HA 0.30+ 0.36++ 0.36++ 0.30+ 0.25++ 0.25  DAYS TO MITURITY 0.37++ 0.15 0.69++ 0.62++ 0.26 0.01 0.01  NODULE NUMBER 1 0.11 -0.03 0.07 0.01 0.07 0.01 0.07  NODULE NUMBER 2 0.23+ 0.07 0.01 0.07 0.01 0.03  NODULE NUMBER 2 0.28+ 0.00 0.07 0.01 0.03 0.00  PLANT HEIGHT 0.02 0.00 0.05 0.04 0.05  PLANT HEIGHT 0.03 0.07 0.01 0.05 0.04 0.05  PLANTS HARVEST 0.01 0.02 0.03 0.04 0.05  PLANTS PLANTS PLANT 0.01 0.02 0.00 0.01 0.01 0.00  DOUGH ORDER PLANTS PLANT 0.01 0.00 0.00 0.00 0.00 0.00 0.00  NODULE WIGHT 0.02 0.00 0.00 0.00 0.00 0.00 0.00 0.0	COEPFICIENT OF VARIATION  COEPFICIENT OF VARIATION  CORRET B L A  PIELD KG/HA 0.30+  DAYS TO MATURITY -0.37++  NODULE NUMBER 1 -0.37++  NODULE WIGHT 1 0.27+  NODULE WIGHT 1 0.27+  NODULE WIGHT 1 0.27+  NODULE WIGHT 1 0.27+  PLANT HEIGHT -0.28+  PLANT HEIGHT -0.28+  PLANT HEIGHT -0.28+  PLANT HEIGHT -0.28+  PLANT HEIGHT -0.27+  TOO SEED WRIGHT -0.17  DISEASE II 0.38++  DISEASE III 0.01	0		2.41	0.18	00.00			
YIELD KG/HA 0.30+ 0.36++ -0.36++ 0.30+ 0.52 0.00  YIELD KG/HA 0.37++ -0.16 0.69++ 0.62++ 0.25 -0.11 0.50++ 0.35 -0.19 0.43++ -0.19 0.43++ 0.314+ 0.31	LSD VARIETY MEANS (******= NS)  C O R R E L A  DAYS TO MATURITY -0.37++  DAYS TO MATURITY -0.37++  NODULE NUMBER 1 0.27+  NODULE WEIGHT 1 0.27+  NODULE WEIGHT 1 0.28+  PLANT HEIGHT -0.24+  PLANT LODGING -0.34++  SHATTER 1.00  PLANT HARVEST -0.19  PODS PER PLANT -0.27+  100 SEED WRIGHT 0.15  DISEASE II 0.38++	00.00	. 14	8.30%	06	0.00%			
KG/HA	KG/HA	0		6.88	0.52	00.00			
KG/HA	KG/HA	ORREL	TION	23	PROB	05	- PROB=.0	11)	
RIOWER	## FLOWER	0.30	0.36++	-0.36++	0.30+	-0.10	0.01	0.50++	0.00
MATURITY -0.32+ 0.17 0.41++ -0.19 0.43++ -0.19 -0.01 0.03 0.03 0.03 0.03 0.03 0.03 0.03	MATURITY -0.32 NUMBER 1 -0.11 NUMBER 2 0.22 NEIGHT 2 0.28 HEIGHT -0.23 LODGING -0.34 SHATTER -0.19 PLANT -0.19 NRIGHT -0.17 OF SEED -0.17 II 0.00	-0.37	-0.16	0.69++	-0.62++	0.25	-0.11	0.15	00.0
NUMBER 1 -0.11 -0.03 0.07 0.01 0.07 0.03 0.03 0.03 0.03 0.03 0.03 0.03	NUMBER 1 -0.11 NUMBER 2 0.27 WEIGHT 1 0.28 WEIGHT -0.28 LODGING -0.34 SHATTER -0.27 WRIGHT -0.27 WRIGHT -0.27  WRIGHT -0.27  WRIGHT -0.17  OF SEED -0.17  II 0.01	FY -0.32	0.17	0.41++	-0.19	0.43++	-0.19	-0-01	00 0
NUMBER 2 0.27+ -0.00 -0.17 0.09 -0.11 0.11 0.10 0.10 0.10 0.02 0.02 -0.04 0.19 -0.07 0.11 0.01 0.03 0.08 0.08 0.028 -0.028 -0.08 -0.05 -0.02 -0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.023 0.17 0.17 0.18 0.54+ -0.11 0.11 0.16 0.16 0.15 0.16 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	NUMBER 2 0.27 WEIGHT 1 0.02 WEIGHT 2 0.23 LODGING -0.34 SHATTER 1.00 HARVEST -0.19 PLANT -0.27 WRIGHT 0.36	1	-0.03	0.07	0.01	0.07	0.03	0.03	0 0
WEIGHT 1 0.02 -0.04 0.19 -0.07 0.11 0.03 0.08 0.00 0.28 -0.08 -0.08 -0.05 -0.05 -0.06 0.05 0.04 0.00 0.28 -0.08 -0.08 -0.05 -0.02 -0.06 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.00 0.05 0.04 0.05 0.05	WEIGHT 1 0.02 WEIGHT 2 0.28 HEIGHT 2 0.343 LODGING -0.34 SHATTER 1.00 HARVEST -0.19 WEIGHT 0.15 OF SEED -0.17	2 0.27	-0.00	-0.17	0.09	-0.11	0.11	0.10	00.00
WEIGHT 2   0.28	WEIGHT 2 0.28	-	+0°0-	0.19	-0.07	0.11	0.03	0.08	00.00
HEIGHT -0.23 0.17 0.18 -0.19 0.54+ -0.11 0.16 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5	HEIGHT -0.23 LODGING -0.34 SHATTER -0.19 HARVEST -0.27 PLANT -0.27 WRIGHT 0.15 OF SEED -0.17 II -0.11	2 0.28	-0.08	-0.05	-0.02	-0.06	0.05	70 0	0.00
LODGING -0.34++ 0.15 0.57++ -0.36++ 0.46++ -0.25 0.16 0.16 SHATTER 1.00 -0.19 -0.27 0.15 -0.17 0.38++ -0.11 0.  HARVEST -0.19 -0.27 0.27 -0.09 -0.49++ 0.31+ 0.13 -0.27+ 0.68++ 0.31+ 0.13 -0.27+ 0.68++ 0.31+ 0.15 0.27+ 0.007 0.29+ 0.68++ 0.31+ 0.15 0.07 0.29+ 0.16 0.07 0.29+ 0.10 0.38++ -0.49++ 0.31+ 0.30+ 1.00 -0.51++ 0.005 0.30+ 1.00 -0.51++ 1.00 0.30+ 1.00 -0.51++ 1.00	LODGING -0.34 SHATTER 1.00 HARVEST -0.27 PLANT -0.27 WRIGHT 0.15 OF SEED -0.17 II -0.11	0	0.17	0.18	-0.19	0.54++	-0.11	0.16	00.00
SHATTER 1.00 -0.19 -0.27+ 0.15 -0.17 0.38++ -0.11 0.  HARVEST -0.19 1.00 -0.33+ 0.27+ -0.09 -0.49++ 0.64++ 0.  PLANT -0.27+ -0.33+ 1.00 -0.68++ 0.31+ 0.13 -0.27+ 0.  OF SED -0.17 -0.09 0.31+ -0.16 0.30+ -0.06  II -0.11 0.64++ -0.27+ 0.29+ 0.00  SHATTER 1.00 -0.51+ 1.00 0.30+ 1.00 -0.51++ 0.00	SHATTER 1.00 HARVEST -0.19 PLANT -0.15 WRIGHT 0.15 OF SEED -0.17 II 0.01	-0.34	0.15	0.57++		i i	-0.25	0.16	00.00
HARVEST -0.19 1.00 -0.33+ 0.27+ -0.09 -0.49++ 0.64++ 0.7	HARVEST -0.19 PLANT -0.27 WRIGHT 0.15 OF SEED -0.17 II -0.38 III -0.38		-0.19	0.	0.15	-0.17	- 4	-0-11	0.00
PLANT -0.27+ -0.33+ 1.00 -0.68++ 0.31+ 0.13 -0.27+ 0.	PLANT -0.27 WEIGHT 0.15 OF SEED -0.17 II -0.11 III 0.00	0 -	1.00	0.33	0.27+	-0.09	- 4-	++#9 0	00.00
WRIGHT 0.15 0.27+ -0.68++ 1.00 -0.16 0.07 0.29+ 0.  OF SEED -0.17 -0.09 0.31+ -0.16 1.00 0.30+ -0.06 0.  I 0.38++ -0.49++ 0.13 0.07 0.30+ 1.00 -0.51++ 0.  II -0.11 0.64++ -0.27+ 0.29+ -0.06 -0.51++ 1.00 0.	OF SEED -0.15  OF II -0.10  III -0.10	-0.27	0.33	1.00	-0.68++	0.31+	0.13	-0.27+	00.00
OF SEED -0.17 -0.09 0.31+ -0.16 1.00 0.30+ -0.06 0. I 0.38++ -0.49++ 0.13 0.07 0.30+ 1.00 -0.51++ 0. II -0.11 0.64++ -0.27+ 0.29+ -0.06 -0.51++ 1.00 0.	OF SEED -0.17 I 0.38 II -0.11 III 0.00	0	0.27+	-0.68++	1.00	-0.16	0.07	0.29+	0.00
1 0.38** -0.49** 0.13 0.07 0.30* 1.00 -0.51** 0. II -0.11 0.64** -0.27* 0.29* -0.06 -0.51** 1.00 0.	I 0.38 II -0.11 III 0.00	-0.17		. 31	-0.16	1.00	0,30+	-0.06	0.00
II -0.11 0.64++ -0.27+ 0.29+ -0.06 -0.51++ 1.00 0.	0 III	0.38	640	0	0.07	0.30+	1.00	0.51	0.00
	0 III	0-	n9°	. 27	. 29	-0.06	-0.51++	1.00	0.00

YEAR 1975

EXPERIMENT 391

YEAR 1975
EXPERIMENT 335
ASLE 147 F

COUNTRY - BAHAMAS	FLEVATION - 1.5 M	LONGITUDE - 78 DEG. 1 MIN. 7		DATE HARVESTED - AUGUST, 1975	ROCK-LAND, PH 7.6	P 219.2, K 111.0		
PEGION - MESOAMERICA	STTE - SAN ANDROS	LATITUDE - 24 DEG. 57 MIN. N	COOPERATOR - J. HAPOLD STERN	DATE PLANTED - MAY 15, 1975	SOIL TYPE - COLLTIC-LIMESTONE PINE ROCK-LAND, PH 7.6	PERMILIZER USED (KG/HA) - N 134.4, P 219.2, K 111.0	AMOUNT OF MOISTURE - 794 MM	NUMBER OF TRRIGATIONS - 2 (25.5 MM)

T LODGING	2	92 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
PLANT	48.75 50.75 61.25 61.25 64.00 64.00 129.25 81.50 49.25 73.50 73.50 78.75	- FE	00000
WEIGHT 2		600000000000000000000000000000000000000	
WEIGHT 1			000.00
NODULE NUMBER 2	396.75 344.75 344.75 548.00 357.00 298.75 278.00 408.00 418.50 223.00 253.00	852.88 822.88 822.88 4.7.99% 1.00 0.17 0.00 0.00 0.00 0.00 0.00 0.00	90.00
NODULE NUMBER 1	294.00 193.50 337.25 573.75 212.00 34.10 259.50 401.25 417.75 417.75 333.25 313.75	138.90 % % % % % % % % % % % % % % % % % % %	0.00
DAYS TO	91.00 91.00 131.50 131.50 156.00 91.00 98.75 91.00 91.00	113.58 8.90% 8.90% 14.44 0.06 0.03 0.03 0.00 0.00 0.00 0.00 0.00	0000
DAYS TO FLOWER	30,00 39,50 29,75 57,50 37,75 28,00 28,00 28,00 28,00 28,00 28,00 28,00	36.17 2.39 13.21% 6.83 6.83 1.0 N 1.00 0.00 0.00 0.00 0.00 0.00	000000000000000000000000000000000000000
YIELD KG/HA	3523.62 3448.61 3319.00 3369.36 2845.82 2845.82 2843.90 2815.56 2740.13 2674.28 2593.85 2478.85 2462.16 2333.80	2821,15 292,42 20,73% *******  0 R R E L 0,013 0,02 0,017 0,00 0,00 0,00	00.00
	R	GRAND MEAN OF VARIETY MEAN (**********  TELD KG/HA S: TO MATCHER S: TO MATCHITY DULE NUMBER 1 DULE WEIGHT 1 DULE WEIGHT 1 DULE WEIGHT 1 LODGING SHATTER ANTS HARVEST	WEIGHT OF SEED II
VARIETY OF CROSS	FORREST DAVIS HAMPTON 266A HARDEE BOSSIER IMPROVED PELICAN CLARK 63 JUPITER CCLUMBUS GCLUMBUS WILLIAMS WOODWORTH COBB	STANDARD ERROR OF A VARIOUS COBPICIENT OF V COBPICIENT OF V VIELD DAYS TO DAYS TO DAYS TO NODULE NODULE PLANT PLANTS	100 SEED OUALITY DISEASE DISEASE DISEASE
RNTRY	6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	STANDAR	

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YEAR 1975

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PERCENT	) ((	27.	26.7	21.8	2.4.2	2.62		2.02	2.77	21.0	22.50	0.27	2. V.C	24.5	22.1					.01)	0 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	1.0	0
PERCENT	40.0	3.0.5	37.8	4.0 × 0	2.04	71.6	42.0	42.1	72.7	0.14	42.2	42.5	41.3	707	42.1					= 80da - +	0 0 0	00.00	0.00	00.00	0.00	0.00	00.00	0.00	00.00	0.00	0.00	0.00	00.00	0.00	1.00	00.00	000
OUALITY OF SEED	1,00	2.75	5.00	2.75	2.75	2.00	00.0	00.1	2.00	2.00	1.00	1.75	1.25	3, 75	3.00	2.47	0.35	28.324	1.00	+ 50°=												0.02					
100 SEED WEIGHT	2.7	1.0	0	1.0	0.5	0,7	. 5	1. 2	10	1.5	10	4.2	0	0.5	17.00	· ·	0	0	3.50	(+ - PFOB	0.01	-0.24	-0.24	-0.10	-0°0-	0.00	00.00	60.0-	00.0	00.0	-0.15	-0.22	1.00	0.12	0.00	0.00	000
PODS PER PLANT	œ	٥.	S.	-	m		' L		-	-	7 0	~	~	0	39.75			20.01%	18.82	r	0.22	35	79	0.25+	0.14	00 00	00.00	0.74++	00 00	00.0	-0.05	1,00	-0.22	0.02	00.00	00.00	000
PLANTS	C	-	ŝ	3	3	٦,	Š	6	6	2 *	0		9	9	90.75	86.52		0		ATION	Ö	ć	0		0							-0.05					
SHATTER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0	0	0.00%		OPREL		- 6										0.00					
																GRAND MFAN	TY MEA	APIATION	*	U	KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HETCHT	Lobging	SHATTER	est.	TNVIG	3:		H	II	111
VARIETY OR CROSS	FORREST		HAMPTON 266A	HARDEE	BOSSIER	IMPPOVED PELICAN	CLARK 63	公司国国国马	JUPITER	COLUMBUS	TRACY	WILLTAMS	WOODWORTH	COBB	CALLAND		PD PEROR OF A V	COEFFICIENT	ARTETY MEANS (*		31.0	0.5	DAYS TO	NODULE	NODULZ	NODULE	NODULE	PLANT		,	PI, 4 NTS	PODS PRA	100 SEE9	OUALTTY	DISTASE	DISEASE	はいるない上口
NUMBER	6	7	2	~	9	7	11	15	-	10	Œ	13	12	2	14		STANDA		5% ISD V																		

YEAR 1975
EXPERIMENT 636
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		001
	PLANT HEIGHT 25,30 27,20 27,20 27,48 27,78 27,85 27,78 118,83 118	00 00
	# NOD OF	001
	H N I I I I I I I I I I I I I I I I I I	0 0 1
. 2 MIN. W	*	0 - 1
N - 61 M E - 89 DEG VESTED - M	#	001
COUNTRY ELEVATION LONGITUDI DATE HAR	* S S S S S S S S S S S S S S S S S S S	1
N 1975 - 6.5	## ## ## ## ## ## ## ## ## ## ## ## ##	001
RICA ARM G. 13 MIN. GARCIA ECEMBER 8, LOAM, PH 6	** C	001
- MESOAME CENTRAL P IE - 17 DE IOR - D ANTED - D PE - CLAY OF MOISTU	######################################	III
REGION SITE - LATITUD COOPERA DATE PI SOIL TY	THRY  TRACY  FORREST  COBB  SEMMES  HAMPTON 266A  COLUMNS  GODWORTH  WILLIAMS  DAVIS  CALLAND  HAPDRE  IMPROVED PELICAN  GRAND  GRAND  COEPPICIENT OF VARI  LSD VARIETY MEANS (*******  NODULE WET  NODULE WET  NODULE WET  LOOSEPROFE  LOOSEPROFE  COEPPICIENT FIND  NODULE WET  NODULE WET  NODULE WET  NODULE WET  OLANT  REASE  TOOSEPROFE  TOOSEP	DISEASE
	PNTRY NUMBER 12 14 15 10 55 11 55 11 55 11 57 11 58 58 58 58 58 58 58 58 58 58 58 58 58	

636	
EXPERIMENT	
148	
TABLE	

YEAR 1975

PLANTS PODS PER 100 SEED QUALITY PERCENT PERCENT ER HARVEST PLANT WEIGHT OF SEED PROTEIN OIL		80.73 27.23 23.35	81.75 24.13 21.68 2.50 44.2	90.25 26.33 22.60 2.00	106.50 21.65 21.78 2.75	94.75 16.48 20.85 2.50 41.6	90.75 22.15 23.93 2.75 44.7	53.25 17.48 24.13 2.50 41.4	79.00 26.60 21.60 2.00 42.4	98.25 33.18 21.60 2.00	68.50 25.98 21.08 2.00 44.6	108.00 25.20 21.33 2.00 44.8	91.50 18.40 22.75 2.00 43.4	87.44 23.73 22.22	12.52 3.44	8 28 64% 29 03% 11 13% 3	法律法律法法律法 法律法法法律法 法保证法法法律法 法共行	E L A T I O N S (+ - PROB=.05 ++ - PROB=.01)	0.02 -0.07 0.23 0.11 0.00 0.00	0.09 -0.16 0.37++ 0.25 0.00	00 -0.17 0.03 0.31+ -0.07 0.00 0.00	00-0 00-0 00-0 00-0 00-0	00.0 00.0 00.0 00.0	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.28 0.33+ -0.20 0.18 0.00 0.00	-0.26 0.24 0.08 0.14 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	1.00 0.20 0.02 0.04 0.00	0.20 1.00 -0.01 -0.13 0.00 0.00	0.02 -0.01 1.00 0.05 0.00 0.00	0.04 -0.13 0.05 1.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00		
ENTRY VARIETY NUMBER OR CROSS SHATTER	≥ C ∈ C E			C088		HAMPTON 266A		WOODWORTH	S = C = C = C = C = C = C = C = C = C =		CALLAND		IMPROVED PELICAN	GRAND MEAN	MEAN	COEFFICIENT OF VARIATION 0.009	=NS)	CORRE	SID RG/HA 0.	TO FLOWER 0.	MATURITY 0.	NUMBER 1 0.	NUMBER 2 0.	WEIGHT 1 0.	WEIGHT 2 0.	HEIGHT 0.	0	SHATTER 1.	HARVEST 0.	PLANT 0.	WEIGHT 0.	OF SEED 0.	I 0°	II 0.	

R 197	
YEA	
412	
EXFERIMENT	
149	
TABLE	

FEGION - MESOAMERICA

SITE - CANAS

SITE - CANAS

LATITUDE - 10 DEG. 24 MIN. N

CODERATOR - 9 M

LONGITUDE - 85 DEG. 8 MIN. W

COPERATOR - BODFIGO ALFARO MONGE

DATE PLANTED - OCTOBER 6, 1975

SOIL TYPE - SAND 40%, SILT 37%, CLAY 23%, PH 6.2

PERTILIZER USED {KG/Ha} - N 60.0

AMOUNT OP MOISTURE - 725 MM

LODGING	00000000000000000000000000000000000000	28.37% 0.170 0.387+ 0.387+ 0.000 0.000 0.000 0.000 0.000
PLANT	71.25 33.75 31.25 50.25 45.50 31.50 45.25 46.75 46.75 46.75 35.75	20.73 20
NODULE WEIGHT 2	7.000000000000000000000000000000000000	21.56% 1.56% 1.56% 1.56% 0.022 0.022 0.022 0.034 0.04 0.000 0.000 0.000
NODULE WEIGHT 1	22.22 22.22 22.22 22.22 22.22 23.22 23.22 24.33 24.33 24.33	2.50 20.282% 20.82% -0.14 -0.19 -0.13 -0.13 -0.13 -0.13 -0.13 -0.00 -0.00 -0.00
NODULE NUMBER 2	479.00 513.50 3588.25 358.75 484.00 546.00 633.50 469.00 369.00 369.00 507.00	155.11 24.18% 24.18% 165.11 0.29+ 0.26+ 0.02 0.00 0.
NODULE NUMBER 1	226.50 368.25 409.75 272.25 351.75 260.50 340.50 340.50 217.00 252.00 294.00 315.25	299.87 39.18 26.13% 111.97 (+ - PROB 0.02 1.00 0.13 0.13 0.01 0.01 0.00 0.00 0.00
DAYS TO ATURITY	137.00 106.00 106.00 92.00 93.00 92.00 92.00 92.25 93.00	99.95 0.06 0.13% 0.95+ 0.95+ 0.02 0.02 0.02 0.02 0.03 0.04 0.00 0.00 0.00 0.00 0.00 0.00
DAYS TO FLOWER M	###.00 386.00 36.00 36.00 36.00 36.00 36.00 36.00 36.00	37.40 0.00 0.00 0.00 1.00 1.00 1.00 1.00 1
YIELD KG/HA	2135,84 1779,52 1779,52 1750,35 1635,90 1583,64 1573,23 1533,64 1427,37 1406,63 1362,77 1344,02 1283,59	1533.36 159.80 20.84% 455.72 0.41++ 0.47++ 0.07 0.07 0.36++ 0.35++ 0.35++ 0.35++ 0.35++ 0.35++ 0.35++ 0.35++ 0.35++ 0.36++ 0.37++ 0.36++ 0.31+
		GRAND MEAN  TOP VARIETY MEAN  (********NS)  (********NS)  C  TELD  RG/HA  TS TO  FLOWER  TS TO  MATURITY  DDULE WEIGHT  DDULE WIMBER 2  DDULE WEIGHT  TODLE WEIGHT  TODLE WEIGHT  TODGING  SHED  ANTS HARVEST  SEED  BASSE  III
VARIETY OR CROSS	JUPITER DAVIS HARDEE CALLAND COLUMBUS COSSIER WILLIAMS WILLIAMS WOODWORTH CCLARK 63 PORREST SEMMES	GRANDARD ERROR OF A VARI COEFFICIENT OF V LSD VARIETY MEANS (****  YIELD DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANTS PODS PER 100 SEED QUALITY DISEASE DISEASE DISEASE DISEASE
ENTRY	1	STANDAR

+ + + +

1 7		1		4		OAL			
		SHATTER	HARVEST	PLANT	WEIGHT	OF SEED			
7	JUPITER	0	213,75	25.75					
	DAVIS	1.50	225.50	21,25		1			
~	HARDEE	4	163.75	26 75	, ц				
<b>=</b>	CALLAND	1,25	186.75	21.00	. =				
0	COLUMBUS	1.75	182.00	20.75		00.			
7	COBB	1.50	181,75	23.00					
0	BOSSIER	1.00	188.50	19. 50	·				
3	WILLIAMS	1,00	201.50	23.50	ין כ				
==	IMPROVED PELICAN	1,50	239.75	26.00					
2		2,00	193.25	17 25	נו כ				
2	WOODWOOM HE	•	1000	000	1 6				
1	THE PARTY OF THE P		100	00.22	7	00.1			
		0	00.061	74°00	_	1.00			
r 1	FORREST	1.00	00.0	18.75	7	1.00			
5		1,25	26.7	18.25	-	1.00			
œ	TRACY	1.75	209.75	16.25	17.95	1.00			
	GRAND			NO.	⇒	1.00			
STAND	VARIETY	0.27	9	gar.	7.	00.00			
1	ICIENT OF VARIATI	38.95%	8.88%	16.73%	8.95%	800 0			
5% I.SD		*	0	16	10	00.00			
	υ	ORREL	ATION	S	(+ - PROB	3=, 05 ++	- PROB=.0	11)	
	KG/H	Ö	0.		0.31+	00-0		_	C
	Ld	Ö	2		-0.02	00 0			C C
	MATURIT	+0°0-	-	. 33	0.19	00.00			
	NUMBER	o	0		0, 12	00-0			
	NUMB	0.04	Ξ.		-0.25	00.00			0
	WEIGH	-0.11	0	- 0	0, 19	00.00			0 0
	WEIGH	0.03	-	9	-0°0d	00.00			0
	PLANT HEIGHT	-0.19	2		-0-15	00.00		, –	
	LODGING	-0.10	-		0.12	00.00			0 0
	Ų,	1.00	0		0.11	00.00		2 0	
	PLANTS HARVEST	0.01	0	- 0	-0.25+	00.00		, 0	0
		-0.07	0	- 4	-0.25	00.00		, c	0 0
	100 SEED WRIGHT	0.11	0.2	1 0	, -	00.0		> <	0 0
	C	00.00	0		00.00	1,00		) C	0 0
	DISEASE	00.00	00.00	00.00	00.0	00.0	100		> <
		0.00	<					> 0	> 0

YEAR 1975

EXPERIMENT 412

		1 2										*		+ +							
		PLANT	64.25									47.37 10.37 43.81% ******		0.25+ 0.48+ -0.05	0.00	1.00	0 00 0	-0.05	-0.32+	0.00	0.00
		NODULE WEIGHT 2	1.24	0 0	0 9	1.74		0 1	0		8 0	1.88 0.42 44.41% ********	01)	0.18 0.09 0.09	00 =	0	.07	-0-2	00	0.0	
	H 975	NODULE WEIGHT 1	0.58	٠. د ص	9.2	9.4	ຸນ	9.9	0 (0	5.5	. 6	0.64 0.16 50.80% *******	+ - PROB=.	0000	# C # C	-0.01	0.0	-0-14	0.0-	0	00
	ca . 42 MIN. ECEMBER, 1	NODULE NUMBER 2	176.75	3.2	0.0	NO	1.7	3.5	6.7	3.0	7.5	191.00 43.93 46.00%	=°02 +	0.28+ -0.01 0.16	9 0	0.09		.30+			
	COSTA RI - 43 M - 85 DEG :STED - D	NODULE NUMBER 1	97.00	03.0	3. 3.5	0.4	0.1	3.2	6.0	2.0	1.2 9.2	106.72 18.98 35.58% ******	(+ - PROB	0.38++ -0.01 -0.05	0.49++	100	-0.05	30	0.45++	0	
AR 1975	COUNTRY ELEVATION LONGITUDE DATE HARVE	DAYS TO	103.50	50	0 2	50 12	0	00	0	0	105.00	102.00 1.54 3.02% *******	ر د	-0.03 0.55++ 1.00 -0.05	* O C	-0.05	000	030	0.26+	0	00.00
14 YEA	MONGE 1975 2%, CLAY 60.0	DAYS TO FLOWER	32,25					0 1			8 9	29.13 1.44 9.86% *******	ATION	0.27+	-0.01	0.48	.01	0.02	-0.10	0.00	00.00
XPERIMENT 6	ICA 14 MIN. IGO ALFARO PTEMBER 3, 29%, SILT (G/HA) - 19 MM	YIELD KG/HA	2055.83	0 3	0 #	40	1 =	20	50	5	1349.02	1707.29 253.99 29.75% *******	ORREL	1.00 0.27 -0.03 0.38++	0.28+	0.0	000	0 -	00	0 0	
150 E)	- MESOAME GUANACASTA E - 10 DE TOR - ROD AWTED - S PE - SAND ZER USED OF MOISTU	1 1 1 1 1 1 1 1 1	<b>5</b> 7.									AND MEAN IETY MEAN ARIATION	υ	KG/HA FLOWER MATURITY NUMBER 1	NUMBER 2 WEIGHT 1	HEIGHT	SHATTER	PLANT	WEIGHT OF SEED	₩ ;	H
TABLE	REGION SITE LATITUD CCOPERA DATR PL SOIL TY FFETIT TA	VARIETY OR CROSS	IMPROVED PELICAN WILLIAMS	03	HAMPTON 266A FORREST	TRACY	CLARK 63	BOSSIER	JUPITER	DAVIS	SERMES	GR STANDARD ERROR OF A VARI COEFFICIENT OF V LSD VARIETY MEANS (****		YIELD DAYS TO DAYS TO NODULE	a Thoon S Thoon	PLANT		PODS PER	100 SEED OUALITY	DISEASE	DISEASE
		ENTRY	# E	10	2 6	∞ rt	11	14	· •-	7	15	STANDA									

-0.03 -0.13 -0.13 -0.16 -0.29 -0.00 -0.00 -0.00

1.72 0.40 47.16%

LODGING

PLANTS PODS PER 100 SEED QUALITY SST PLANT WEIGHT OF SEED	PELICAN 1.00 175.75 31.50 18.25 1.	1.25 157.25 29.25 21.00	1.00 154.50 27.75 20.48	1.00 135.25 41.25 19.93	266A 1.00 140.75 33.75 21.08 1.	1.00 161.25 29.75 20.98	00 160.00 27.00 20.50 1.	1.00 165.50 24.00 19.00	3 1-00 136.25 26.00 19.63 1.	1.50 162.25 29.00 20.30 1.	1.00 137.75 33.00 20.33 1.	25 137.50 23.50 20.60 1.	00 165.50 27.50 18.70 1.	1.00 102.50 39.75 19.60 1.	1.00 110.50 31.25 19.90	GPAND MEAN 1.07 146.83 30.28 20.02	A VARIETY MEAN 0.12 21.21 4.17 1.11	OF VARTATION 22.25% 28.89% 27.53% 11.
ARIETY R CROSS	Q	E.	HARDEE	62		FORREST	TPACY	1		BOSSIER	CALLAND	JUPITER	DAVIS	NEGERA (C)	WOODWORTH	GRAND	VARIETY	WC #

YEAR 1975

EXPERIMENT 614

1975
YEAR
654
EXPERIMENT
151
IABLE

SITE - LA LINA
LATITUDE - 15 DEG. 24 MIN. N
LONGITUDE - 15 DEG. 24 MIN. N
LONGITUDE - 15 DEG. 57 MIN. W
CCOPERATORS - D.L. RICHARDSON, J. RCMERO
CATE PLANTED - FEBRUARY 12, 1976
AMOUNT OF MOSTURE - 463 MM
LOCAL VARIETIES - SIAISA 194, SIAISA 166
SUBSTITUTE VARIETIES - PICKETT 71, BONUS

LOLGING	7	28.45% 0.17 28.45% 0.49 0.27 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PLANT	81.75 69.00 835.75 83.75 64.00 44.00 44.00 26.50 26.50 26.50 27.50 40.75 40.00 19.00	1.76 1.76 8.25% 5.04 0.00
NODULE WEIGHT 2	000000000000000000000000000000000000000	00000000000000000000000000000000000000
NOCULE WEIGHT 1	000000000000000000000000000000000000000	+ PEOB= + PEOB
NODULE NUMBER 2	000000000000000000000000000000000000000	1.000 0.000
NODULE NUMBER 1	000000000000000000000000000000000000000	(+ PROB
DAYS TO	50.25 94.25 89.25 69.50 76.50 76.50 76.50 77.50 94.25 66.00	78.53 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07
LAYS TC FLOWER	29.00 29.00 29.00 110.25 110.00 111.75 111.75	14.93 3.48% 3.48% 3.74 1.00 1.00 0.00 0.00 0.00 0.01 0.01 0.0
XIELD KG/HA	4253,77 4253,37 4252,93 3402,35 3232,31 3118,96 2721,79 2514,25 2495,08 22041,25 2495,08 1495,08	2757.55 223.05 16.17% 636.50 0 R E L L 0.634 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
		GRANL MEAN  OF VARIETY MEAN  OF VARIATION  (*********  ILLD  KG/HA  S TO  NOMBER 1  DULE NUMBER 2  DULE NUMBER 2  DULE MEGHT 1  LANT MEIGHT 1  LANT LOGGING  SHATTER  ANTS HARVEST  PLANT  LOGGING  SHATTER  PLANT  LITY OF SEED
VARIETY OR CROSS	SIATSA 194 JUPITER HARDEE SIATSA 166 COLUMBUS FCRREST WILLIAMS PICKETT 71 BONUS BONUS BONSSIER HAMPTON 266A WCODWORTH TRACY CIARK 63	STANDARD ERROR OF A VARIETY CCEFFICIENT OF VARIA  ISI VARIETY MEANS (********  VIELD K DAYS TO FI DAYS TO MATU NODULE NUME NCDULE NUME NCDULE WEIG NCDULE WEIG NCDULE PIE PEANT LCE SHA POUS PER 170 SEED WE 170 SEED WE
ENTER	4-0300000000000000000000000000000000000	STANDAR

	PERCENT	. 0	19.1	0.77	23.3	19.0	21.3	23.3	22.1	I I	21.0	22.2	21.6	25.4	10 0	24.2	24.8																			
	PERCENT	T 24	40.3	45.3	7.04	40.0	45.0	47.7		1	45.0	45.9	44.8	2000	43.2	41.0	41.0																			
	QUALITY OF SEED																00.0	0.30		800.0	00.00	B=.01)	00.0	00.00	00.00	0.00	0.0	00.00	), ))	00.00	), ))	00.00	0.00	00.00	00.0	1.33
	100 SEED WEIGHT				₽	0											0	0, 00		0.00%	00.	++ - PRO											1.99			
	PODS PER PLANT	-		30.43	ی	° ~		r c	u a	n o	Ď.	2。	2 .	7	0	. ~	32.53	4 .	77 0	17.69%	.92	PROB=.05	0.29+	9	コ	00.00	0.00	0	0.00	=	N	0.10	3, 31+	1.00	0.00	0.00
1 1 1 1 1 1 1 1	PLANTS						ן נ	٠ (	22.4.62	4 1	` '	S	2	LET	0	7	60.75	3.7	4.8	12.22%	10	+ )	0.60++	).21	-0.01	00.00	0.00	0.00	3.33	0.34++	). 17	0.09	1.))	m	~	00.00
	SHATTER			1,25	-	. $\subset$	, –	$\cdot$	1 . C		00	$\circ$	1.25	0	1.00	_	5	1.18	0.21	35,23%	***	S N O	-0.02	3,18	0.30+	0.00	0.00	00.00	0.11	0.10	- 0. )4	1.00	3, 19	0.10	00.00	00.00
																		GRAND MEAN	>- 	VARIATION	**	ELATI	K G/HA	FLOWER	MATULITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LODGING	SHATTER	HARVLST	PLANT	MEIGHI	CF SEFD
	VARIETY OR CROSS	SIATSA 194	JUPITER	HARDEE	SIATSA 166	COLUMBUS	FCRREST	WILLIAMS	PICKETT 71		DO NOT HELD	BUSSIER	HAMPTON 266A	WCCDWORTH	×	CIARK 63	COBB	:	N >	ICIENT CF	* *	CCRR	YIELD	DAYS TO	DAYS TC	NCDULE	NCDULE	NODULE	NCDULE	TNE Id			PLANTS	24 t	111	E4 1
1 1 1 1 1 1 1	FUTEY	14	-	m	15	10	Ç	£.	7		, 4	، ر	7 0	12	ω	<del>-</del>	u,		STANDAL	1	CA ISI VA															1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1975

中国马车户

MESOAMEPTCA

CAYMANAS

SITE - (

COUNTRY - JAMAICA ELEVATION - 1.5 M LONGITUDE - 77 DEG.

(a)

LATITUDE - 18 DEG. N
COOPERATOR - HAROID R. WILSON
DATE PLANTED - APRIL 23, 1975
SOIL TYPE - SAND 22%, SIEL 22%, CLAY 28%, PH 6.8
FRETLITZER USED (KATA) - N 25.0, P 25.0, K 37.5
AMOUNT OF MOISTURE - 276 MM (+ 2 PURROW IRRIGATIONS)
NUMBER OF IRRIGATIONS - 4 SPRINKLER (204 MM) + 2 PURROW
SUBSTITUTE VARIETY - PICKETT 71

1975

AUGUST

40.50 41.50 41.50 41.50 41.50 41.50 41.50 41.50 41.75 41 PLANT 0.00 NODULE WEIGHT 2 PROB=. 01) 0.00% WEIGHT 1 0.00 NODULE NUMBER 2 PROR=.05 41.95 6.39 30.47% NODULE NUMBER 1 31.25 53.25 441.75 442.00 442.00 33.25 37.25 37.25 37.25 37.25 37.50 47.50 47.50 ÿ 90.42 0.89 1.98% 2.56 DAYS TO 88.50 88.50 88.60 88.60 88.60 88.60 88.60 88.60 88.60 88.00 88.00 88.00 98.00 co 33.82 0.54 3.22% 1.56 z DAYS TO FLOWER 0 jarrej. E r. 2519.86 465.71 36.96% H 3874.11 3876.30 3876.30 2816.44 2876.40 2810.56 2825.40 2825.60 2825.60 2825.70 2825.70 2826.7 YIELD KG/HA 1331,06 <u>[2.</u>] pr. 00 C GFAND MEAN STANLARD ERROR OF A VARIETY MEAN CORPRICIENT OF VARIATION ISD VARIETY MEANS (\*\*\*\*\*\*\*\*NS) JUPITER IMPROVED PELICAN HAMPTON 266A HARDEE PICKETT 71 SEMMES WOODWORTH WILLIAMS
FORREST
CLARK 63
DAVIS
CALLAND
TRACY VARIETY OR CROSS COLUMBUS BOSSIFR

1.50 2.10 2.10 2.10 3.20 3.20 3.20 3.20

LODGING

NODULE

ENTRY

-0-13 0.50+ 0.15 -0.00 -0.13 -0.00 KG/HA
PLOWER
MATURITY
NUMBER 1
WEIGHT 2
WEIGHT 2
WEIGHT 2
WEIGHT 0
WEIGHT 0
WEIGHT 0
WEIGHT 1
TI YIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT PODS PER 100 SEED OUALITY DISEASE DISEASE PLANTS

-0.15 -0.15 -0.15 -0.00

1.45 0.25 15.13% 0.73

0.62 2.71%

ENTRY	ARIETY		PLANTS	PODS PER	100 SEED	AL			† 
NUMBER	OR CROSS	SHATTER	> ~	PLANT	THUISE	OF SEED			
10	COLUMNIS	1.00	191.75	51.25	16.63	1.50			
13	WILLIAMS	1.00	197.00	41.00	16,43	1.25			
6	E-S	1.50	197.75	44.25	14.35	1,25			
-	CLASK 63	1.00	198.75	49.50	19.98	1.25			
7	DAVIS	1,25	194.50	57.00	20, 45	1.00			
14	CALLAND	1.00	194.75	38,00	16.73	1.50			
œ	TRACY	1.25	191.25	49.00	16.18	2.00			
r.	PICKETT 71	1.50	197.50	56.50	14.63	2.00			
15		1.75	196.00	29.00	15.88	1.00			
2	AMPT	1.25	197.50	40.50	16,33	1,25			
m	HARDEE	1,75	198.00	66.50	13.78	1.00			
9	BOSSIER	1.00	-31	50.75	20.00	1.00			
12	WOODWCRTY	1.75	4	54.75	12.85	1,25			
_	JUPITER	1.25	192.75	60.50	19,88	1.75			
<del>d</del>	IMPROVED PRLICAN	1.00	4	51.50	15.85	2.25			
		N	195.65	51.		1.42			
STANDA	RD ERROR OF A VI	N	2	-	, 1	0.27			
	COEFFICIENT, OF VARIATIC	ON 43.02%	2,13%		8.61%	38.76%			
5% ISD		****	****	4.		0.78			
		CORREL	ATION	S	(+ - PROB	++ 50°=1	- PROB=, 01	1)	
	YIELD KG/HA	-0-	0.01	-0.26+	0.06	0.03	00.00	-	
	_	-0-	0	0.11	0.18	0.41++	00.00	-	
	AYS TO	TY -0.13	-0.16	0.12	0.30+	0.25+	00.00	00.00	, _
	6-1	-0-	0	-0.19	0.02	0.22	00 0		
	6.5	0	00.00	00.00	00.00	0.00	00.00	0	
	F-1	0	00.0	00 0	00.00	0.00	00.00	0	0
	6.7	0.	00.00	00.00	0.00	0.00	00.00	0	
		-0-	0	0.12	0.18	0.34++	00.00	9	, .
	I OUG I	-0-	0	0.16	60.0	0.20	00.00		, ,
		1	0	0.23	-0.19	-0.15	00.00	2	
	VTS HA	ST -0.	1.00	-0.03	-0.15	_	00 00		0 0
	PODS PER PLA	T. 0.	-0.03	1.00	C	-0.06	00.00		
	SED	HT -0.	0	90.0-	1.00	_	00.00	0	0
	ITY OF S	ED -0.	0	0	-0.13	1.00	00.00	0	0
	DISEASE	0	00.00	00.00	00.00	0.00	1,00	0	· C
	S.	0	00.00	00.00	00.0	00-0	00.0		C
	1								

EXPERIMENT 346 YEAR 1975

EAR 1975
T 320 YI
EXPERIMENT
153
TABLE

PLANT	75.00 80.00 85.00 76.25 91.25 75.00 65.00 65.00 65.00 65.00 65.00 64.25 64.25	
NODULE WEIGHT 2	0.27 0.36 0.36 0.36 0.37 0.27 0.27 0.23 0.58	0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053 0.053
WODULE WEIGHT 1	0.05 0.03 0.03 0.03 0.13 0.15 0.01 0.01 0.08 0.01 0.01 0.08	
E 58 MIN. LY, 1975 NODULE JMBER 2	52.00 13.25 144.25 72.50 72.50 76.25 89.00 41.50 41.00 73.50 41.00 73.50 41.00	70.00 70.00 70.95 % 70.95 % 70.95 % 1.00 1
MARTINIO 10 M - 60 DEG STED - J STED - J	15.50 22.00 1.50 42.00 4.50 29.50 23.50 24.00 24.00 3.75 57.75 63.25	+ - P F F F F F F F F F F F F F F F F F F
CCUNTRY - ELEVATION LONGITUDE DATE HARVI	119.00 111.00 119.00 134.00 93.00 86.00 107.00 86.00 111.00 86.00	00000000000000000000000000000000000000
5 60.0, P 8 125 MM) AAYS TO FLOWER	35.00 33.75 30.00 22.00 22.00 22.00 22.00 27.75 27.00 27.00 27.00 27.00	27.02 0.02 1.76 1.76 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
A MIN.  1 10, 19  H 5.0 N  H 5.0 N  S57 MM  NS - 17  YIELD  KG/HA	2153.76 1747.85 1634.08 1633.66 1468.95 1396.95 1356.10 1174.82 1069.80 1069.80 1016.04 1016.04 951.02	1341.32 175.39 % 486.73 0.37+ 0.37+ 0.37+ 0.29+ 0.029+ 0.07+ 0.67+
- MESCAME E LAMENT S - LA DE C - LA DE C - DA NYED - A DE - CLAY DE - CLAY DE NISTO PERIGA		GRAND REAN RIETY BEAN VARIATICN *****= NS)  RG/HA  O HATURITE E BUNBER 1 E BU
REGION SITE LATITUI CCOPE DATE DATE PRRTIL AMOUNT NUMBER WARIETY R OR CROSS	IMPROVED PELICAN BOSSIER HARDEE CALLAND JUPITER CLARK 63 COLUMBUS WOODWORTH DAVIS FORREST WILLIAMS COBB SEMNES HAMPTON 266A	GE A VARI ICIENT OF T TELD DATS TO DATS TO DATS TO DOULE WODULE MODULE MODULE PLANTS POD SEED TO SEED TO SEED DISEASE DISEASE DISEASE DISEASE
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LODGING

0.56++
0.19
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PERCENT OIL	222 2222 2222 2222 242 242 252 252 262 262 262 263 263 263 263 263 263 26		
PERCENT PER	444.9 42.0 42.0 42.5 47.1 47.1 43.0 43.7 45.1 45.3 43.9	PROB=. 01)	
QUALITY PHOTO OF SEED PH	22.25 33.55 33.55 33.50 33.50 33.50 33.50 33.50 33.50		0.15 0.54 0.54 0.53 0.05 0.04 0.24 0.00 0.00 0.00
WEIGHT O	17.75 19.75 20.50 32.75 32.75 19.25 19.25 17.50 22.55 22.25 22.25 22.75	21.82 0.99 9.11% 2.84 (+ - PROB=.0	-0.16 0.22 0.22 0.22 0.022 1.00 0.022 1.00 0.00 0
PODS PER 10 PLANT	69.10 46.72 55.12 55.12 49.15 33.20 33.20 40.78 40.78 25.88 28.50 25.88	2 7	0.657 ++ -0.33 ++ -0.34 ++ -0.41 ++ -0.41 ++ -0.64 ++ -0.64 ++ -0.66 ++ -0.
PLANTS F	112.75 173.00 175.50 1204.75 120.50 189.50 196.50 198.70 198.70 193.00 193.00	559% 633% 0 N S	-0.58* -0.78* -0.78* -0.13* -0.63*
SHATTER	000000000000000000000000000000000000000	H 0000	
			FLOWER PLOWER PLOWER MATURITY NUMBER 2 WEIGHT 1 WEIGHT 2 HEIGHT 2 HEIGHT 1 WEIGHT 1 WEIGHT 0 PLANT WEIGHT 0 FLANT I I I I I I I I I I I I I I I I I I I
VARIETY OR CROSS	IMPROVED PELICAN BOSSIER HARDEE CALLAND JUPITER CLARK 63 COLUMBUS WOODWORTH PORREST WILLIAMS COBB SEMMES HAMPTON 266A	GRA COEFFICIENT OF VARIES LSD VARIETY MEANS (*****	DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE PODULE PLANT PLANT PODS PER 100 SEED QUALITY DISEASE DISEASE
ENTRY NUMBER	4 0 E 4 - 1 1 0 1 1 2 2 E E E E E E E E E E E E E E E E	STANDA!	

1975	
YEAR	
11611	
EXPERIMENT	
154	
TABLE	

RECION - MESCAMERICA

SITE - MANAGUA

LATITUDE - 12 DEG. 33 MIN., N

LATITUDE - 12 DEG. 59 MIN., W

COOPERATOR - BANCO CENTRAL DE NICARAGUA

LATE PLANTED - AUGUST 18, 1975

SOIL TYPE - SILT, PH 6.4

ANOUNT OF MOISTURE - 660 MM

LOCAL VARIETY - RICHARDSON

LCDGING	000000000000000000000000000000000000000	
PLANT	71.37 86.65 89.15 51.00 30.65 31.18 31.18 31.18 51.28 33.37 46.00 46.00	47, 32 1, 83 7, 72% 5, 21 0, 47 0, 67 0, 67 0, 67 0, 60 0, 6
NODULE WEIGHT 2	22 00 00 00 00 00 00 00 00 00 00 00 00 0	3.69 1.12 60.87% 3.20 0.28 0.06 0.075 1.00 0.0
NODULE WEIGHT 1	1, 48 1, 18 1, 18	1.29 0.34 52.01% ***** 0.02 -0.10 0.02 -0.24 0.02 -0.24 0.00 -0.24 0.00 -0.24 0.00 -0.24 0.00 -0.24 0.00
NODULE NUMBER 2	135.00 110.50 110.50 110.50 100.25 100.25 120.75 140.00 109.00 109.00	# 56.89 * 56.89 * 56.89 * 56.87 * 56.87 * 56.00 - 0.12 - 0.00 - 0.00
NODULE NUMBER 1	80.00 46.75 79.00 69.50 98.00 61.50 156.50 106.50 122.50 175.25	85.62 20.42 20.42 47.71% 58.29 -0.02 -0.02 -0.07 -0.29
DAYS TO	111.50 93.25 83.25 88.25 93.25 93.25 96.75 100.75 84.00 86.50 84.00	S
DAYS TO FLOWER	33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	30.37 30.37 4.28
YIELD KG/HA	2920.17 2139.59 2093.75 2004.57 1919.57 1919.55 1884.54 1884.54 1728.20 1330.27	1857.43 175.79 18.93% 501.72 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
		GRAND MEAN  T OF VARIETY MEAN  (*************  YIELD  KG/HA  YS TO MATURITY  ODULE NUMBER 1  ODULE NUMBER 2  ODULE WEIGHT 1  COULE WEIGHT 1  COULE WEIGHT 2  PLANT HEIGHT 2  PLANT HOUSER  SATTER  LANTS HARVEST  SFFE WEIGHT 2  SATTER  LANTS HARVEST  SFFE WEIGHT 2  SFFE WEIGHT 2  SFFE WEIGHT 2  SFFE WEIGHT 3
VARIETY OR CECSS	JUPLIER RICHARDSON IMPROVED FELICAN COLUMBUS CALLAND HARDEE CALLAND DAVIS COBB WILLIAMS FORREST BOSSIER WOODWOFTH TRACY	GRAND CORFICTENT OF W VARIETY MEANS (****  VARIETY MEANS (*****  YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANTS POLS PER 10C SFE QUALITY DISEASE DISEASE DISEASE DISEASE
ENTRY	- 21 - 21 - 22 - 22 - 22 - 22 - 23 - 24 - 24 - 24	STANEAR STANEAR

YEAR 1975

• • • • • • • • • • • • • • • • • • •		0 12	-0.10 -0.05 -0.05 -0.18 -0.06 -0.06 -0.06 -0.06 -0.07 -0.32+ -0.32+ -0.32+ -0.34+ -0.37+ -0.37+
PERCENT	27.8 26.0 27.5 27.5 27.7 27.7 27.7 27.7 26.0 26.0 27.4 27.4	0	-0.23 -0.56+ -0.16 -0.07 -0.11 -0.07 -0.00 -0.00 -0.04 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.06 -0.07 -0.06 -0.07 -0.06 -0.07 -0.08 -0.00
PERCENT PROTEIN	38.8 44.1.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9	Pi O	-0.10 -0.29+ -0.25 -0.25 -0.31+ -0.82++ 0.00 -0.00 -0.09+ 0.49++ 0.74++ 1.00 -0.56++
QUALITY OF SEED	00000000000000000000000000000000000000	3.	-0.24 -0.33** 0.03 0.03 0.00 0.00 0.12 -0.32* 1.00 0.74* -0.32*
OO SEED WEIGHT	13.65 13.65 12.10 14.70 17.60 17.60 17.50 14.70 14.70 16.50		0.05 0.34 0.34 0.02 0.02 0.02 0.00 0.00 0.12 0.01 0.03 0.03 0.09 0.00 0.00 0.00 0.00 0.00
PODS PER 1 PLANT	103.23 103.23 67.25 67.75 67.75 843.79 847.65 847.65 83.20 83.20		0.15 0.28 0.30 0.30 0.30 0.00 0.00 0.00 0.00 0.0
PLANTS P	124.75 80.75 118.00 119.50 117.00 118.25 113.25 113.25 113.25 110.50 129.25	######################################	00000000000000000000000000000000000000
SHATTER	000000000000000000000000000000000000000	M OOOO H OO	
		* PHEE	THE REPORTED THE REPORTED THE REPORTED THE REPORTED THE REPORT OF THE REPORTED THE
VARIETY OR CRCSS	JUPITER RICHARDSON IMPROVEL PELICAN COLUMBUS HARDEE CALLAND HAMPTCN 266A DAVIS COBB WILLIAMS FORREST BOSSIER WOODWCRTH TRACY CLARR 63	GRAND STANLARD ERROR OF A VARIETY COEFFICIENT OF VARI LSD VARIETY MEANS (************************************	
ENTRY	- 51 4 0 6 8 4 2 7 C 5 5 6 8 5 7 8 5 5 6 8 5 6 6 8 5 6 6 8 5 6 6 8 5 6 6 8 5 6 6 6 8 5 6 6 6 6	STANLA 5% LSD V	

YEAR 1975
96h I
EXPERIMEN
155
(%) (m)

E NICARAGUA 75	
E NICARAGUA 75	LONGITUDE - 86 DFG, 40 MIN.
7.5	
ITIS - Ad	7, 1975 DATE HARVESTED - NOVEMBER, 1975
AMOUNT OF MOISTURE - 1386 MM	£ 7 0:
LOCAL VARIETY - RICHARDSCN	CN

LCEGING		**************************************
PLANT	259.75 26.05 26.05 27.45 26.63 274.65 26.65 28.65 33.65 33.65	34. 34. 36. 37. 37. 37. 37. 37. 37. 37. 37. 37. 37
NODULE WEIGHT 2	000000000000000000000000000000000000000	
NODULE WEIGHT 1		
NODULE NUMBER 2		B = 0.000
NUMBER 1	000000000000000000000000000000000000000	00000   000000000000000000000000000000
DAYS TO	933.00 986.50 990.75 990.75 833.00 833.00 833.00 833.00	86.60 2.37% 2.93%
DAYS TO FLOWER	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	A T I O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
YIELD KG/HA	1895.80 1479.46 1444.46 11245.27 1121.47 1021.47 1021.47 1021.47 1021.28 899.76 879.32 728.48 728.48 589.70	1028.40 171.43 33.34% 489.28 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
		GRAND MEAN VARIFTY MEAN OF VARITTON (*********S)  C S TO MATGHER S TO MATGHER DULE WEIGHT 1 LULE WEIGHT 2 LANT HEGHT LODGING SHATTER ANTS HARVEST PER WEIGHT ILDGING SHED WEIGHT LITY OF SEED EASE ITERS ITE
VARIETY OR CRCSS	RICHARDSON JUPITER WILLIAMS HARDE INPRCVEL FELICAN COLUMEUS FORREST PAVIS TRACY COBB BOSSIER HAMPTON 266A WOODWORTH CLARK 63	STANLARD ERROR OF A VARI COEFFICIENT OF V LSD VARIETY MEANS (**** NODULE NODULE NODULE NODULE NODULE NODULE NODULE NODULE DOUGHTY DISRASE DISRASE DISRASE DISRASE
ENTEY	21 8 8 8 8 8 8 8 7 1 1 1 1 1 1 1 1 1 1 1	STANLE STANLE STANLE

	0 9 1 0 0 0 0		000000000000000000000000000000000000000
	PERCENT	22.7.0 22.7.2 22.7.2 22.7.2 22.7.4 22.5.3 22.7.4 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22	000000000000000000000000000000000000000
	PERCENT	35.7 40.6 36.9 40.6 37.7 39.6 40.4 40.4 40.3 40.3 40.3 40.3 40.3	- PROB=.01) -0.51++ -0.21 -0.68++ -0.00 -0.00 -0.00 -0.05++ -0.55++ -0.67++ -0.67++ -0.05
JED)	QUALITY OF SEED	mmunamaaaaanaa aooo	-0.19 -0.19 -0.10 -0.33 -0.00 -0.00 -0.23 -0.23 -0.22 -0.22 -0.22 -0.04 -0.00
(CONTINUED)	100 SEED WEIGHT	12.50 16.10 12.50 12.70 12.00 14.30 11.80 13.40 11.80 11.80 12.78 12.78 12.78 12.78	PROBE0 0.01 0.018 0.000 0.000 0.000 0.000 0.000 0.000 0.000
FAR 1975	PODS PER 1	22.08 22.28 23.28 23.28 22.15 22.15 22.15 22.15 22.16 18.18 18.18 13.10 26.27 4.54 34.57 4.57	0.688 0.594 0.00 0.00 0.00 0.00 0.10 0.01
496 YE	PLANTS	109.00 95.75 126.25 131.75 132.50 132.50 126.25 126.25 102.50 118.90 118.90	H H O O O O O O O O O O O O O O O O O O
PERIMENT	SHATTER	00000000000000000000000000000000000000	H
55 EX	9 9 9 9 6 9	AND MEAN MEAN MEAN MEAN MEAN MEAN MEAN MEAN	KG/HA PLOWER NUMBER 1
TABLE	VARIETY OR CECSS	RICHARDSCN JUDITER WILLIAMS HARDEE IMPROVEE PELICAN COLUMBUS PORREST DAVIS TRACY COBB BOSSIER HAMPTON 266A WOODWORTH CLARK 63 CALLAND STANEAED ERROG OF A VARIETY LSD VARIETY MEANS (************************************	YIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT POES PER 106 SEED QUALITY DISEASE DISEASE
	ENTRY	15 13 13 10 10 10 11 11 11 14 11 14 12 12 13 14 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
			- 289 -

YEAR 1975
495
EXPERIMENT
156
TABLE

CCUNTRY - NICARAGUA ELEVATION - 60 M	LONGITUDE - 86 DEG. 59 MIN. W	URICIO OCANA	DATE HARVESTED - NOVEMBER, 1975			
REGION - MESOAMERICA SITE - POSOLIEGA	EATITUDE - 12 DEG. 33 MIN. N	CCOPERATORS - GUSTAVO ABBALAH, MAURICIO OCANA	LATE PLANTED - AUGUST 21, 1975	SOIL TYFF - SAND, PH 6.2	AMOUNT OF MOISTURE - 1473 YM	LOCAL VARIETY - RICHARDSON

LCDGING	2000 2000 2000 2000 2000 2000 2000 200	* * * * * * * * * * * * * * * * * * *
PLANT	58.45 53.65 30.65 30.65 30.65 30.65 30.65 31.50 30.75 30.75 30.75	34.81 1.32 1.60% 3.78 3.78 0.83 0.68 1.55
NODULE WEIGHT 2	3.3.34 2.27 2.27 2.19 2.19 2.18 3.19 1.25 1.25 1.25 1.38 1.42 1.42 1.42	2.29 0.29 25.55% 0.83 0.60** 0.50** 0.50** 0.68** 0.68** 0.68** 0.68** 0.00 0.02 0.02 0.02 0.02 0.02 0.02 0.
WEIGHT 1	00000000000000000000000000000000000000	10.71 10.12 10.35 10.35 10.05 10.00 10
NUMBER 2	270.25 249.25 266.75 266.75 267.00 1885.00 103.00 193.00 193.00 193.00 194.75 184.75 145.25	220,42 29,20 26,49% 83,33 60,01 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,38+ 1,00 0,01 0,01 0,01 0,01 0,01 0,01 0,0
NUMBER 1	250.00 158.50 165.25 105.00 99.25 118.25 104.25 104.25 120.25 96.50 95.75 96.50	119.63 22.17 37.06% 63.27 (+ - PROB= 0.57+ 0.57+ 0.81+ 0.81+ 0.68+
DAYS TO	118.50 113.75 100.25 93.25 115.50 91.75 110.75 117.25 117.25 117.25 119.00	106.95 3.52 6.58% 10.04 10.04 10.27 10.27 10.37 10.37 10.00 10.00 10.00
PLOWER P	46.00 39.00 27.00 27.00 27.00 27.00 28.25 28.25 28.25 28.25 27.00 28.25 27.00 28.25 27.00 28.25	31.23 0.52 3.35% 1.49 1.49 1.40 0.00 0.33 1.00 0.00 0.00 0.00 0.00 0.0
YIELD KG/BA	1927.47 1744.93 1678.67 1653.15 1023.95 899.35 899.35 899.35 664.30 660.55 660.55	25.26% 353.47 C R R E L A 0.657 0.65
		GRAND HEAN  VARIETY MEAN  OF VAITATION  (*********S)  C  C  C  C  C  C  C  C  C  C  C  C  C
VARIETY OR CFCSS	JUPITER RICHARDSON RILLIAMS GOLUREUS TRACY DAVIS CALLAND CLARK 63 BOSSIER HAMPTCN 266A ROODWORTH HARDEE	STANDARD ERROR OF A VARIETY COEFFICIENT OF VAFIA COEFFICIENT OF VAFIA DAYS TO FI DAYS TO MATE NODULE NUME NUME NODULE NUME NODULE NUME NUME NODULE NUME NUME NODULE NUME NUME NUME NUME NUME NUME NUME NUME
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	JUPITER RICHARDSCN WILLIANS COLUMBUS TRACY DAVIS CALLAND CLARK 63 BOSSIER HAMPICN 266A PORREST WOODWCRTH HARDE COBB DERROR CP A VARIATE COEFFICIENT OF VARIATE RIFTY MEANS (************************************	M M M M M M M M M M M M M M M M M M M	000000000000000000000000000000000000000	207.50 189.25 210.75 200.75 194.50 187.25 190.50 182.00 187.50 2212.75 179.00 126.25 193.75	24.30 16.75 18.75 12.38 12.85 13.28 13.28 11.20 9.70 9.70 14.47 28.67%	14.20 16.53 17.20 17.20 17.20 17.20 17.20 16.35 16.35 16.30 17.60 16.30 17.60 18.58 18.58	**  **  **  **  **  **  **  **  **  **	41.6 43.1 43.2 40.5 44.4 44.4 41.7 41.7 45.8 41.2 41.2 43.0 41.7	24.8 21.5 22.5 22.5 23.8 20.8 20.9 24.7 21.6 21.6 21.2 24.2 24.2	
M H M O F C C C C M M	ESCN EI PELICAN MS 03 B 03 R N 266A RTH RTH CP A VARIA CIENT OF VARIA CIENT OF VARIA CARIA CARIA	M M M M M M M M M M M M M M M M M M M		99.25 90.75 90	66.22 66.22 66.22 66.22 66.22 66.23 66	2000 2000	**244 0055 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	43.1 43.2 44.4 44.9 41.7 41.7 41.8 41.8 41.8 41.7 39.7	24.5 20.8 20.8 20.8 20.9 23.5 21.2 21.2 24.2 24.5	
HBUFOUUE	ED PELICAN MS US D 63 R 1	M M M M M M M M M M M M M M M M M M M	000000000000000000000000000000000000000	00.75 00.75 00.75 00.75 00.50	88.75 22.885 33.883 34.883 36.883 36.	0.05 0.05	**************************************	43.2 44.4 44.9 41.7 41.7 45.8 41.2 43.0 43.0	23.8 23.8 20.8 20.9 20.9 23.5 21.6 21.2 24.2 24.5 24.5	
3 U F O U U M H	MS US D E3 R R TH GRAND CF A VARIATY CIENT OF VARIA EANS (*******	E E E E E E E E E E E E E E E E E E E	00000000000 0000	44.50 44.50 33.50 50 50 50 50 50 50 50 50 50	4	7.00 2.00	**245 **25 **25 **37	40.5 44.4 44.9 41.7 41.7 42.2 45.8 41.2 41.2 41.3 41.7 39.7	25.12 20.9 20.9 24.7 25.4 21.5 24.2 24.2 24.2	
OFAUUME	US  63  R  8  R  1 TH  GRAND  CF A VARIATY  CIENT OF VARIA  EANS (*******	M T T T ON N T T I ON N S )		4.50 3.50 2.25 0.50 0.50 0.50 0.50 0.50 0.50 0	4.38 22.88 33.88 33.28 3	775.24 775.24	***24C	44.4 44.9 41.3 41.7 42.2 45.8 41.2 41.8 41.7 39.7	20.8 20.9 20.9 20.9 25.7 21.2 24.2 24.2 24.2	
FAUUME	63 R N 266A IT GRAND CP A VARIA CIENT OF VARIA EANS (*******	MEAN MEAN TION = NS)	0000000000 0000	3.50 7.25 7.25 7.25 7.25 3.75 3.75 3.75 3.75 3.75 3.75 3.75	22.85 33.83 33.28 33		**************************************	44.9 41.3 42.2 42.2 45.8 41.8 43.0 41.7 39.7	20.0 24.7 19.5 21.5 25.4 21.2 24.5 24.5 24.5 24.5	
	63 R R 266A I RTH GRAND CF A VARIA CIENT OF VARIA EANS (*******	METAN TION TION = NS)	000000000 0000	7.25 0.50 0.50 0.70 0.70 0.70 0.70 0.70 0.7	33.83 33.28	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**************************************	41.3 42.2 45.2 45.8 41.8 41.8 43.0 41.7 39.7	2.15.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.	
OOME	63 R 266A I GRAND CF A VARIETY CIENT OF VARIA EANS (******	M F B B B B B B B B B B B B B B B B B B		00.50 22.00 33.00 33.00 50.00 30 30 30.00 30 30 30 30 30 30 30 30 30 30 30 30 3	33.28 33.93 33.93 33.93 36.50 60.63 60.63 60.63	M M M M M M M M M M M M M M M M M M M	50000000000000000000000000000000000000	41.7 45.8 45.8 41.2 41.2 43.0 43.0 41.7 39.7	23.55 23.55 21.2 24.2 24.2 8	
OME	63 R N 266A BTH GRAND CF A VARIETY CIENT OF VARIA EANS (*******	M T T T T T T T T T T T T T T ON N S )	0000000 0000	2.00 3.00 3.00 2.75 3.75 3.75 3.75 3.75 3.75	1.20 1.20 1.70 1.70 5.50 9.70 9.70 9.70 9.83	NUMUCMM ***	4	45.2 45.2 41.2 43.0 43.0 59.7	23.55 21.6 22.5.4 24.5.2 24.2 24.2 8	
<b>8 X</b>	R 266A RTH GRAND CP A VARIATY CIENT OF VARIA EANS (*******	MEAN MEAN MEAN TION = NS)		7.50 3.00 22.75 9.00 9.25 9.72 9.72	1.20 1.70 9.70 9.70 9.70 9.83 0.83 4.47	nuncum ++n+	4.75 4.75 4.75 4.75 6.75 6.75 6.75 7.75	45.8 41.2 43.0 41.7 39.7	25.4 25.4 21.2 24.2 24.2 24.3 24.3	
I	N 266A I TH GRAND CP A VARIETY CIENT OF VARIA EANS (******	MEAN TION ION	00000 0000	33.00 22.75 3.75 3.75 3.75 3.75	1.70 9.70 9.70 9.70 9.70 9.70 9.83 9.47	M 10 0 M M 21 M 21 M 21 M 21 M 21 M 21 M	4.75 6.00 75.00 4.75 75.00 6.24 8.***	41.2 41.8 43.0 41.7 39.7	25.7.5 24.5.2 24.2 24.8	
	T RTH GRAND CF A VARIETY CIENT OF VARIA EANS (******	H H H H H H H H H H H H H H H H H H H	0000 0000	2-75 9-00 3-75 1-22 9-29	4.888 0.838 0.838 0.83 0.83	10 0 m m m m m m m	4.75 4.75 4.75 4.65 0.24 ************************************	41.8 43.0 41.7 39.7	24.2 24.2 24.2 24.8	
DE.	RTH GRAND CF A VARIETY CIENT OF VARIA EANS (******	TITAN TITAN S)	000 0000	3.75	4.88 0.83 0.83 0.83 0.83	19 m m = 10 =	5.00 4.75 4.50 4.50 0.24 10.32 ************************************	43.0 41.7 39.7	24.22	
Die	GRAND CF A VARIETY CIENT OF VARIA EANS (******	MEAN TION NS)	00 0000	3.75 3.75 3.75 9.29	4.888 0.83 0.83 0.83 6.07	95 80 00 00 00 00 00 00 00 00 00 00 00 00 0	4.75 4.75 4.50 4.65 10.32 ********	39.7	24.2	
<b>=</b>	GRAND CP A VARIETY SIENT OF VARIA EANS (******	MEAN MEAN TION = NS)	0 0000	3.75	0.83 0.83 0.83 0.07 2.07	96 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.50 4.65 0.24 10.32 ******	39.7	24.2	
C	GRAND CP A VARIETY CIENT OF VARIA EANS (******	MEAN MEAN TION = NS)	0000	1.22 9.29 9.72	4.47 2.07 8.67	BR → 10 →	4.65 0.24 10.32 ******			
	CF A VARIETY CIENT OF VARIA EANS (******	MEAN TION = NS)	0000	9.29	2.07	> > 0 →	4.65 0.24 10.32 ******			
CARTE	CIENT OF VARIA	TION = NS)	000	9.29	2.07 8.67	»e	0°24 10°32 ******			
LARU	MEANS (******	TION = NS)	00	9.72	8.67	8€ 10 →	10.32			
:	****** SNEEL	= NS)	0		000	_				
LSU VARI				26.52	26.6					
		0	RRELA	TIONS		(+ - PROB	=.05 ++	- PROB=.	01)	
	LD	G/HA	0	~	0.56++	70 -	C		_	0
	TO	OWER	0	0	0.59++	-0.16	-0.17		•	
	ME	RITY	۰	0	0. 10	0,3	) C			
	NODULE NUMBI	ER 1	0		0.51++	-0.11	2		, (	
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	PLANT	68,50	55, 25	50.50	55,50	32.00	43.00	31,75	31.00	28, 75	30, 25	51.88	52.90%		0.53++	00 00	00.00	0000	00.00	00 00	1.00	0000	00.00	00.00	00 0.	000		00.00
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975	NODULE WEIGHT 1	0	0.0	0	0	0.0	0	0.	0.	00 00	0	0.0	000.00	++ - PROB=.	0	0.	0.0	· •		0	0	000000000000000000000000000000000000000	0	0.	0	2 0		
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ELEVATI DATE HA 52%, PH 5	DAYS TO	00.00	00	00		00	0	0	0	00.00	0	00.00	0000	v.	00.00	00.00	1.00	00.0	00.00	00.00	0.00	00-0	00.00	0.00	00.00	00.0		00.0
FRA 14%, CL 32.8,	DAYS TO	0	0.0	0	0.	0.0		0	0.	00.00	0.	00.00	% 00 · 0	ATION	0	0.	0.	, c	0	0.0	0.0	00.0	0	0.	0			
10 MIN. R A. SIL UST 22, 4%, SILT 6/HA) 1828	YIELD KG/HA	032.6	96,2	621.5	6000,3	98°6	35.7	55.6	80.5	795.58	30.5	00 1	42.59% 898.39	ORREL	0	0	0		0	0.0	5	00000	C	0	0	0	· C	
STTE - CHICHERRE LATTUNE - 9 DEG. COOPPRATOR - GASDA DATE PLANTED - AUG SOTL TYPE - SAND 3 FEPTILZER USED AMOUNT OF MOISTURE IOCAL VARITTY - FA	VARIETY OF CROSS	JUPITER	COLUMBUS IMPROVED DELICAN	۳ ا ا ا ا	WILLIAMS	DAVTS	HOODWORTH	POPPEST		HARDER	BOSSIER	UNE	OF VARIATIO	U	YIELD KG/HA	TO PI	MATE	C DESCRIPTION C DESCRIPTION	WETG	NODHLE WEIGHT 2	PLANT HEIGHT	SHATTER SHATTER	ARV			n L		DISEASE III

LODGING

ENTRY

1640101118F 2mg

STANDARD

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4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			HARVEST	PLANT	WEIGHT	OF SEED		
CONTER		0.00	00.00	0.00	00.00	0.00		
IMPROVED PELICAN		00.0	00.0	0000	000	000		
		00.00	0 0	00 00	00.0	00.0		
WILLIAMS		00.00		00.00	00.00	00-0		
DAVIS		00.00		00.00	00-0	00.0		
FAO 27403		00.00	00 0	00.00	00.00	00.00		
WOODWORTH		00 00	0	00.00	00.00	00.0		
PORREST		00.0		00.00	00.00	0000		
TRACY		00.00		00 00	00 0	00.00		
HAMPTON 266A		00.00		00.00	00.00	00-0		
HARDEE		00.00		00.00	00.00	00-0		
BOSSIER		00.00		00.00	00.00	00.00		
200	ND MEAN	00	00	0	<	0		
H	ETY MEAN	00.00	00.0		. 0			
ICTENT OF V	RIATION	0.00%	18		, C	% CO - C		
****	****	00.00	.00	00.00	00	00.00		
	υ	ORREL	ATION	۲N	(+ - PROB	=.05 ++	PROB=.0	1)
Series Com	KG/HA	00.00			00.00	00.00	00.00	00.00
10	FLOWER	00.00		00 00	0.00	00.00	00.00	00 00
-	ATURITY	00.00			00.00	00.0	00.00	00.00
NODULE N	NIFMBER 1	00.0	00.00	00.00	00.00	00.00	00.00	00.00
Pu <sup>2</sup>	TMBER 2	00.00		00.00	00.00	00.00	00.00	00-0
20.7	BIGHT 1	00.00		00.00	00.00	0.00	00.00	00.0
9.0	EIGHT 2	00.00		00.00	00.00	00.00	00.00	00-0
p.	HEIGHT	00.00		00.0	00.00	00.00	00.00	00.00
gav.i	LODGING	00.00	9	00.00	00.0	00"0	00.00	0000
	SHATTER	1.00	9	00.00	00.00	00.00	00.00	00.00
E S	HARVEST	00.00		00.00	00.00	00.0	00-0	00.00
[E.	PLANT	00.00		1.00	00.00	00.00	00.00	00.00
FD	WEIGHT	00.00	- 0	00.00	1.00	00.00	00.00	00.00
I A	N	00.00	. 0	00.00	00.00	1-00	0.00	00.00
DISEASE	Н	0.00	9	00.00	0.00	0.00	1.00	00.00
EC.	 	00.00		00.00	0.00	00-0	0000	1.00
DICORCO								)

YEAR 1975

EXPERIMENT 616

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YEAR 1975

SITE - RIO HATO

LATITUDE - 8 DEG. 22 MIN. W

LATITUDE - 8 DEG. 10 MIN. W

COMPRATOR - GASTAR A. SILVERA

COMPRATOR - GASTAR A. SILVERA

DATE HANESTED - DECEMBER, 1975

SOIL TYPE - SAND 60%, SIL 10%, CLAY 30%, PH 6.7

FETTILIZER USED (KG/HA) - N 32.8, P 55.5, K 32.8

MIMPER OF IRPIGATIONS - 1

LOCAL VARIETIES - CES-485, PAO 27403

LODGING	00000	000	00	$\sim \sim \sim$	20	$\circ$	0	00.00	0.00	00.00		00.00	0.00	000"0	00.00	00.00	00.00	0.00	00.0	0.00	00"0	00.00	0.00	0.00	00.00	0.00
PLANT	53.75 28.50 75.75	25.75 62.00 59.25	24.25	23.00	19.50	24.00	19.00	35. 57	3.83	10.94		0.53++	0.00	++ 02 °0 0 °0	00.00	00.00	0.00	00.00	000	0,32+	00.00	-0.10	00 0	00 00	00.00	0.00
NODULE WEIGHT 2	00000	0 0 0	0 0	0 0	0 0		-0	0	0.0	00.00	01)	0.00	0.00	000	00.0	00.00	1.00	00.0	00.0	00.00	00.00	00.00	0.00	0.00	0.00	00.00
WEIGHT 1	00.00			8 0	0 0	0 9	- 0			00.00%	.+ - PPOB=.			000-0		9		8		0 0		0		9		
NODULE NUMBER 2	00.00	0 0 0	0 0	0 7	9 0	0 0		00.00	0.00	00.0	+ 50*=1	0.00	0.00	00000	1.00	0.00	00.00	00.00		0.00	00.0	00.00	0.00	0.00	0.00	0.00
NODULE NUMBER 1	00.00	9 0 0	0 0	0 0	9 0	9 0	9	0	9	00.0	(+ - PROB	00.0	00.00	000	00.00	00.00	00.0	0000		00.00	00.00	00.00	00.0	00-0	0.00	00.00
DAYS TO MATURITY	110.00	200	0 0	000	° °	92.25	c	95, 18	1 614	2.24	ಬ	0.60++	0.00	00.00	00.00	00.00	00 00	0.80+	00.0	0.34++	00.00	0.01	00.00	00.00	00.00	00.00
DAYS TO FLOWER	00000		000	0.0	000	0.0	00.00	0	000	00.00	ATION	0	1.00	00000	0.00	0.	0	0000		0	0.	0	0.	0	0 0	0000
YIELD KG/HA	3790.76 3153.96 3059.36	58° 13° 46°	73.	999	14.	16.	30.		60	2.27	ORREL		9	0.00			9	6	0 1		9			9		00.00
								AND MEAN	ETY MFAN	NOTEVER * * * * * * * * * * * * * * * * * * *	υ			MATURITY NUMBER 1	NTMBER 2		WEIGHT 2	THETCHT	SHATTER	HARVEST	PLANT	MEIGHT	OF SEED	H	II	111
VARIETY OR CROSS	JUPITER DAVIS CES-486	HARDER FAO 27403 IMPROVED PELICAN	HAMPTON 266A COLUMPUS	FORREST	BOSSIER	CLAPK 63 WOODWORTH	COBB		RD ERPOR OF A	ABIETY MEANS		YTELD	DAYS TO	NODULE	NODILLE	BINGON	NODULE	EN WILD		PLANTS	PODS PER	100 SEED	OUNLINE	STORES EN	DISERSE	N SERVE
ENTEY	- 1 7	- TS - 4	10	တာ ဇာ ဇု	9	12	r		STANDA	SK LSD V																

RUTHON	V A River In Fig. 1. V	1	PI.A NTS	POES PER		QUALITY			
	Off CROSS	SHATTFR	RVES	PLANT	WEIGHT	00			
<b>-</b>	JUDITER	0.00	174.00	00.00	22,50	00.00			
	DavIS	00.00	180.25	00.00	18.50	00"0			
14	587-486	00.00	141.00	00.00	18.50	0.00			
~	HAPDEE	00.00	149.25	0.00	19.25	0.00			
15	FAO 27403	00.00	146.75	00.00	11,75	00 0			
*	TMPROVED PELICAN	0.00	203,50	0.00	13,75	00.00			
2	HAMPTON 266A	00.00	177.00	00.00	20.00				
10	SUPMULOO	00.00	173.00	00.00	17.50				
æ	TORUM	00.00	147.75	00.00	17.75				
6	PORPEST	00.00	152,25	00.00	15,50				
13	WILLIAMS	0.00	149.50	00.00	19,25	00.00			
æ	BOSSIER	00.00	125.75	00-0	15.75				
11	CLARK 63	0	114.75	0.00	17.50				
12	WOODWORTH	C	110.00	0.00	16.05				
٧	COBR	00.00	42.75	00.0	17.50				
		00.00		00.00	17.42	00.00			
STAND	ARD ERROR OF A VARIETY	0.00	. 31		0.64	0.00			
	COFFFICIENT OF VARIA	0.00%	12.77%	0.00%	7.37%	%00 0			
5% 150	*	00.00	9	0	1.83	00.00			
	U	ORREL	ATION	S	(+ - PRO!	B=.05 ++	- PROB=.	01)	
	YIELD KG/HA	0.00	0.50++	0 •	0.29+		00.00	0.07	C
		0.00	00.00	00.00	00.00		00 00	00.00	· C
	0	0.00	. 34+	00.00 +	0.01		00.00	00.00	c
	ß."	00.0	00.00	00.00	00.00		00.00	00.00	
	Dr.C	0.00	0.00	00.00	00.00	- 0	00.00	0.00	C
	D:7	00.00	0.00	00.00	00.00		00.00	0.00	00 00
	6-2	00.0	00.0	0.00	00.00		00.00	0.00	0
		0.00	0.32+	00.00	-0.10	. 0	00.00	0.00	C
	LODGING	00.00	0.00	0.00	00.00	- 0	00.00	0.00	C
	SHATTER	1.00	00.00	00.00	00.00		00.00	00.00	C
	PLANTS HAPVEST	00.00	1.00	00.00	0.06		00-0	00.00	C
	PODS PER PLANT	0.00	00.00	1.00	00.00		00.00	00-0	
	100 SEED WRIGHT	0.00	0.06	00.00	1.00		00.00	00.00	
	QUALITY OF SEED	00.00	00.0	00.00	00.0		00.00	00.00	C
	DISEASE	0.00	00.00	0.00	00.00	00 0	1.00	00.00	0
		00.00	000	0	6				2 1
			0000	00.0	0000	- 1	00.0	100	C

EXPERIMENT 613 YEAR 1975

TAPLE 158

YEAR 1975
EXPERIMENT 643
ABLE 159

	NODULE 2 PEIGHT 2 O.00 O.00 O.00 O.00 O.00 O.00 O.00 O.
C S	NEIGHT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D AND TOBAGO G. W APRIL, 1976 (CADP)	N M B B D L L L L L L L L L L L L L L L L L
	N M B DDULL M B B B B B B B B B B B B B B B B B B
COUNTRY - TRINIDA ELEVATION - 6 M LONGITUDE - 61 DF 6, 1976 DATE HARVESTED N 40.0, P 35.0, K 66.0 5 MM JUPITER (CADP), IMPROVED PELICAN	DAYS TO AATURITY 100.25 95.25 97.25 91.00 91.00 92.50 92.50 92.50 93.50 93.50
1976 N 40.0, P	DAYS TO FLOWBR 41.75 40.75 32.05 34.25 26.00 29.00 29.00 26.00 26.00 26.00 26.00
- MESOAMERICA - PORT-OF-SPAIN UDE - 11 DEG. N ERATOR - R. SALANDY PLANTED - JANUARY 6, 1976 TYPE - SANDY LOAM LITRER USED (RC/HA) - N 40 T OF MOISTURE - 165 MM ITUTE VARIETIES - JUPITER	YIELD KG/HA 4432.49 4095.82 3753.25 3587.38 3419.85 3310.66 3252.32 3108.99 2547.18 2793.89 2547.18 2793.89 2547.18
REGION - MESCAMBRICA SITE - PORT-OF-SPAIN LATITUDE - 11 DEG. N CCOPERATOR - R. SALANDY DATE PLANTED - JANUARY SOIL TYPE - SANDY LOAM PERTILIZER USED (KG/HA) AMOUNT OF MOISTURE - 16 SUBSTITUTE VARIETIES -	(CADP)
REGION - MI SITE - POR' LATITUDE CCOPERATOR DATE PLANTI SOIL TYPE - FRATILIZER AMOUNT OF I	VARIETY OB CROSS JUDITER (CADP) JUDITER (ADP) ANDITER (ADP) ANDITER (CADP) ANDITER (CADP) ANDITER (CADP) IMPROVED PELICAN IMP

ENTRY

LODGING

PLA NT HEIGHT

63.30 61.73 37.20 37.68 37.68 34.70 34.70 34.70 34.70 325.90 225.40 225.40 227.33

1.65 0.15 0.42		0.29+	++67°0	++ †† † 0	00.0	00.00	00.00	00.00	0.76++	1.00	0.08	-0.01	0.24	0.18	0.07	00.00	00.00	00.00
34.63 2.19 12.67% 6.27		++#9*0	0.75++	0.51++	00 00	00.00	00 00	00.00	1.00	0.76++	-0.09	0.35++	0.08	0.18	-0.09	00 00	00.00	00.00
000000000000000000000000000000000000000	<u>-</u>	00-0	00°0	00.00	00.00	00°0	00.0	1.00	00.0	00.0	00 0	00.00	00.0	00.00	00.00	00.0	00.00	00.0
% 000.00 % 000.00	- PROB=.0	00.00	00.00	00.00	00.00	00.00	1.00	00.0	00.0	00.0	00.00	00.00	00.0	0.00	00.0	00.0	00.0	00.0
\$00°00 \$00°00	++ 50										00.00							
* 00 · 0	+ - PROB=										00.00							
93.02 0.65 1.40%	)	0.56++	0.67++	1.00	00.00	00.0	00.00	00.00	0.51++	++ ## 0	0.02	-0.02	0.20	++0#00	0.20	00.00	0.00	00.00
30.85 0.35 0.99	TIONS	0.55++	1.00	0.67++	00.00	00.0	00.00	00.00	0.75++	++64"0	-0.16	0.20	0.24	0.14	-0.10	00.00	00.0	00.0
2913.64 226.92 15.58% 648.55	OBRELA	1.00	0.55++	0.56++	00.00	00.00	00.0	00.00	0.64++	0.29+	-0.16	0.67++	-0.02	0.30+	-0.13	00.00	00.00	00.00
GRAND MEAN VARIETY MEAN OF VARIATION (******NS)	υ	D KG/HA	DL,	80		E NUMBER 2	-	E WEIGHT 2		-1	SHATTER			CM	C	1	II	III B
STANDARD ERROR OF A VAR COEFFICIENT OF 5% LSD VARIETY MEANS (***		YIELD	DAYS TO	DAYS TO	NODULE	NODRE	NODGE	RODULE	PLANT			PLANTS	PODS PER	100 SEED	VTT.TT.	DISEAS	DISEASI	DISEASI

2%

			PROB=_01) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
UED)	QUALITY OF SEED	3.50 3.50 3.50 4.00 2.15 4.00 4.00 4.00 4.00 5.00 6.00	† *
(CONTINUED)	100 SEED WEIGHT	27.58 28.45 28.45 28.37 28.37 28.37 28.37 28.37 28.37 28.37 28.38 28.37 28.30 28.40	四 0 + +
EAR 1975	PODS PER PLANT	26.95 26.12 20.48 33.10 18.95 29.15 20.67 20.97 20.97 20.97 20.97 29.40 32.58 21.77 24.89 2.19%	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
th3 Y	PLANTS	195.25 191.50 178.50 213.25 208.75 202.25 193.50 183.50 135.75 67.00 84.00 177.43 115.00%	A T I O N C 1 C C C C C C C C C C C C C C C C C
EXPERIMENT 6	SHATTER	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0 8 8 E L L L L L L L L L L L L L L L L L
159 E		AN (CADP)  AN  GRAND MEAN  FIETY MEAN  VARIATION  ******"S)	KG/HA FLOWER PAUNITY NUMBER 1 NUMBER 1 WUMBER 1 WEIGHT 2 WEIGHT 2 HEIGHT A
E I I I I I I I I I I I I I I I I I I I	VARIETY OR CROSS	JUPITER (CADP)  JUPITER  DAUIS  HARDER  WILLIAMS  IMPROVED PELICAN  COLUMPUS  FORREST  HAMPTON 266A  IMPROVED PELICAN  BOSSIER  TRACY  WOODWORTH  CLARK 63  COBB  STANDARD ERROR OF A VARI  LSD VARIETY MEANS (*****	YTELD DAYS TO NODULE NODULE NODULE NODULE PLANT PLANT PODS PER 100 SED QUALITY DISEASE DISEASE DISEASE
	ENTRY	14 13 15 10 10 11 12 12 5 11 5 11 5 12 13 13 14 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	

YEAR 1975	
306	
EXPERIMENT	
160	
TABLE	

1975	
NTRY - IRAN VATION - 1300M GITUDE - 51 DEG. E E HARVESTED - SEPTEMBER,	
COU ELE LON I, M. MOJTAHEDI BS. 0, P 100.0	
£ 0	
KARAJ DE - 35 DEG. 48 MIN. DE - 3 DEG. 48 MIN. ATORS - M.C. AMIRSHAH LANTED - MAY 11, 1975 YPE - CLAY LOAM, PH 7 IZER USED (KG/HA) - N	NUMBER OF IRRIGATIONS - 14

LODGING	001000	2.00 1.00 1.00 2.00 1.00 5.00 5.00	2.15 0.10 9.36 8	-0.55 -0
PLANT	97.75 86.50 80.00 89.50	107.75 86.25 94.50 99.50 101.00 105.75 105.75 105.75	89.70 1.47 3.27% 4.20	-0.17 0.71++ 0.71++ 0.75++ 0.41++ 0.52++ 0.60++ 0.00++ 0.
NODULE FIGHT 2	2.93	2. 10 2 2 3 5 2 2 3 5 3 5 3 5 3 5 3 5 3 5 3 5	2.73 0.31 22.83% 0.89	00.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
NODULE EIGHT 1 W	0.66 0.88 1.00 0.64	00.00 00	1.01 0.12 24.35% 0.35 - PROB=.0	0.09
NODULE UMBER 2 W		228.75 93.25 163.25 248.75 197.00 157.75 226.25	204.55 30.34 29.66% 86.71	00.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
NODULE UMRER 1 NI	5.2	83.75 833.55 83.55 183.75 136.50 136.50 136.50 138.25	107.32 22.26 41.49% .63.62 (+ - PROB=	
DAYS TO ATURITY N	106.25 110.00 110.25 110.25	102, 75 102, 25 105, 50 109, 00 109, 00 129, 00 129, 00 129, 00 149, 75	111.72 0.94 1.68% 2.68	-0.00 -0.00
DAYS TO FLOWER M	0.00 m	7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	38.55 0.30 1.553 1 0.85	
YIELD KG/HA	4684.27 4567.58 4353.79 4282.11	35340, 35 35500, 35 3387, 34 3314, 00 2598, 52 2504, 67 1608, 65 858, 50	3245.15 229.46 14.14% 655.81	1.00 1.00
			SPAND MEAN A VARIETY MFAN (**********)  C C	KG/HA PLOWER WATURITY NUMBER 2 WEIGHT 1 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 0 LOGING SARVEST PLANT WEIGHT OF SEED
VARIETY OR CROSS	AMSOY 71 CORSOY WELLS BEESON HODESON	HODESON BONUS HARK WOODWORTH WILLTAMS SWIFT CALLAND CLLARK 63 ALTONA COLUMBUS	STANDARD EPROR OF A VARIETY COEPRICIENT OF VARIASS LSD VARIETY MEANS (************************************	YIELD DAYS TO DAYS TO NODULE NODULE NODULE NODULE PLANT PLAN
ENTRY	N 20 8 7 2	4 E E E E E E E E E E E E E E E E E E E	STANDARI S% LSD VAE	

AMSOY 71		SHATTER	HARVEST	PODS PER PLANT	100 SEED WEIGHT	QUALITY OF SEED	PERCENT	PERCENT
> CV a C C		1.00	186.25	57.50	000	00.00	41.1	20.5
WELLS		1.00	195.75	56.00	0000	00.0	43.7	19.3
BEESON		1.00	208.00	54.50	0	00.00	43.3	20.1
HODGSON		1.00	177.25	43.00	~	00.00	43.2	20.3
BONUS		1.00	190.50	48.50	0	00.00	44.1	20.2
HARK		1.00	208.25	39.50		00.00	41.7	21.1
WOODWORTH		1.00	194.75	51.75	~	0.00	42.2	20.1
WILLTAMS		1.00	200.75	52,25	-	00.0	43.5	20.3
SWIFT		1.00	202.00	25.50	0	00.00	40.0	21.8
N		1.00	193.75	50.50	0	00.00	42.1	19.7
CLARK 63		1.00	187.75	47.25	-	00.00	41.1	20.5
ALTONA		1.00	252.25	20.00	-	00.00	44.6	16.5
COLUMBUS		1.00	93.50	36.50	-	0.00	42.1	20.0
PORREST		1.00	189.75	20.25	-	00.0	40.7	17.3
GRA	ND MFAN	1.00	0	0	0	00 0		
VARI	TTY MEAN	00.0	.57	. 2	0	00.0		
PICIENT OF V	ARIATION	0.00%	8.92%	14.91%	%00.0	%00.0		
LSD VARIETY MEANS (****	***= NS)	00.0	. 5	<u>د</u>	00.	00.00		
	C U	RREL	ATION	S	(+ - PROB	= 05 +	+ - pROB=.	01)
YIBLD	KG/HA	00.00	0.20	0.62++	0		00.00	00.00
	PLOWER	0	0.29	0	0		00.00	0000
g.,	est.			-0.05	0		00.00	00.0
gillion o	5	. 0	0	0	0		00.00	00.00
200	0	- 0	- 0	0.07	0		00.00	00.00
	Gr.		-0.27+	-0.31+	0		00 0	00.00
	0_		$\sim$	-0.11	0		00 00	00.00
PLANT	HFIGHT		640	0.29+	C		00.00	00.00
	LODGING		-	-0.15	0		00.00	00"0
	SHATTER		00.00	<u> </u>	0		00.00	00.00
	HARVEST		1.00	-0.16	0		00.00	00 0
PODS PER	PLANT		-0.16	1.00	0		00 0	00.00
100 SFFD	WEIGHT		00°0	00.00	0		00 00	00.00
OUALITY	OF SEED		00-0	00.00	C		00.0	00.00
DISEASE	$\vdash$	0.00	00.00	00.00	00.00	00.00	1.00	00.00
DISEASE	II	0	0.00	00.00	0		000	1.00
100000000000000000000000000000000000000					)		000	

YEAR 1975

EXPERIMENT 306

1975
YEAR
311
EXPERIMENT
161
BLE

	PLANT HEIGHT LO	88.25 88.25 88.25 89.25 99.25 77.25 66.25 77.25 77.25 66.25 77.25 60.25 60.95 83.14 2.89 60.95 60.95 60.00 60.
	NODULE WEISHT 2	1.95 1.55 2.88 3.35 2.88 2.83 4.45 1.05 8.35 8.35 8.35 8.35 1.45 1.45 1.45 1.05 1.00 0.37 1.03 1.00 0.00 0.00 0.00 0.00
1975	WEIGHT 1	0.00 0.00
. * अव ह स स स स	NODULE NUMBER 2	# # # # # # # # # # # # # # # # # # #
- IRAN N - 1300 M E - 45 DEG VESTED - S PH 8.0	NODULE NUMBER 1	70.00 110.00 110.00 20.0
CCUNTRY LONGITUDIAR DATE HAR AY 56.8% A		25.75.75.75.75.75.75.75.75.75.75.75.75.75
. A. MOZAFI 37.9%, CL 22.0, P 2(	DAYS TO FLCWER	49.00 49.00 49.00 49.00 49.00 60.00 60.00 60.00 43.57 43.57 43.57 60.00 60
AST CARAPETIAN CARAPETIAN 5.3%, SITT KG/HA) - N E - 801 MM IONS - 11	YIELD KG/HA	2885,16 2749,745 2713,88 2583,02 2584,68 22644,68 2264,99 2181,27 2020,57 1968,31 1816,20 1525,72 1968,31 1816,20 1525,72 2316,92 95,93 8288,28 1,00 0,36++ 0,61++ 0,00 0,36++ 0,00 0,00 0,00 0,00 0,00 0,00 0,00 0
REGICN - MIDDLE E SITE - REZAIXEH LATITUDE - 37 DEG COODERATORS - J. DATE PLANTE - SAND SOIL TYPE - SAND FERTILIZER USED ( AMOUNT OF MOISTUR NUMBER CF IRFIGAT		AND MEAN ETY MEAN ETY MEAN ARRIATION ****= NS)  KG/HA FLCWER MUMBER 2 WUMBER 1 I COGING SEED I I I I I I I I I I I I I I I I I I I
REGICN SITE - LATITUD COOPERA DATE PL SOIL TY FERTILI NUMBER	VARIETY OR CROSS	WOODWORTH BEESON WELLS BEESON WELLS BONUS AMSON 71 CALLAND CALLAND COLUMBUS CORSON HARK SHIFT ALTONA ALTONA GRI STANDARD ERROR OF A VARI COEFFICIENT OF V NODULE NO
	ENTRY	11 12 12 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15

2.5.5.00 1.0000 1.0

LODGING

0.36\*\*

		000000000000000000000000000000000000000
PERCENT 01L 21.7 20.5 20.5 21.8 21.8 21.8 21.8 21.0 21.3 19.0 22.5 22.5 22.5 22.5 22.8		
9 PERCENT 33.9 36.3 36.3 36.3 37.4 37.4 37.4 37.2 3		- PROB = .01)
OUALITY OF SEED 1.50 2.00 1.00 1.00 1.05 1.05 1.05 3.00 3.75	1.93 0.34 35.09% 0.97	-0.55 ++ -0.55 ++ -0.55 ++ -0.55 ++ -0.12 -0.10 -0.10 -0.15 -0.15 -0.15 -0.15 -0.15 -0.00
MEIGHT 14.08 13.65 13.13 14.08 13.65 13.88 13.88	14.60 0.30 0.86	(+ - PROB== 0.76 + + 0.27 + + 0.23 + + 0.03 + 0.38 + 0.31 + 0.00 - 1.00 - 0.00 - 0 - 0 - 0 - 0 - 0 -
PODS PER 1 BLANT 31.00 24.25 24.50 26.50 26.50 26.00 23.25 22.25 22.25 22.50 25.50	25°38 3°40 *******	00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00
PLANTS 1 189.75 199.25 190.25 190.25 190.25 190.75 190.75 190.25 190.25 198.50	189.96 6.19 6.52% 17.70	A T T O N S
ATTER 100 100 100 100 100	0000	
	TY MEAN TRIATION ****=NS)	KG/HA FLOWER RATURITY NUMBER 1 NUMBER 2 NUMBER 2 NEIGHT 2 NEIGHT 2 SAATTER HARVEST PLANT WEIGHT 1 NEIGHT 1 III
WARIETY OR CROSS WOODWORTH BEESCN WILLIAMS WELLS BONUS AMSOY 71 CALLAND CLARK 63 COLUMBUS CORSOY HODGSCN HARK SMIFT	GE COEFFICIENT OF 1 VARIETY MEANS (****	YIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT PLANTS PODS PERD QUALITY DISEASE DISEASE
ENTRX NUMBER 112 12 13 13 13 14 15 15 15 17 17 17 17 17 17 17 17 17 17 17 17 17	STAND 5% LSD	

YEAR 1975	
EXPERIMENT 302	
TABLE 162	

II M M M M M M M			
COUNTRY - ISRAEL ELEVATION - 80 M LONGITUDE - 34 D	ESTED	AY 35%, PH 7.6 K 104.0	
REGION - MIDDLE EAST SITE - BET-DAGAN LATITUDE - 32 DEG. N	ORS - B. RE	OIL TYPE - SAND 40%, SI ERTILIZER USED (KG/HA)	ABOUNT OF BOISTURE - 310 BB NUMBER OF IRRIGATIONS - 7

PLANT HEIGHT LODGING	91.00 101.75 116.00 2.50 111.50 2.25 97.25 1.00 19.25 70.50 1.00 86.00 1.25 83.25 1.00 65.50 119.50 119.50	88,85 4,10 9,23% 11,72 0,27 11,72 0,07 0,00 0,
NODULE WEIGHT 2		
NODULE WEIGHT 1		- PROB== 01
NODULE NUMBER 2	000000000000000000000000000000000000000	PROB== 05  PROB== 05  PROB= 05  PROB= 05  PROB= 05  PROB
NODULE NUMBER 1		*
DAYS TO	112.25 126.55 116.00 110.00 110.00 110.00 110.00 110.00 113.25 17.00	106.33 1.86% 2.83 2.83 1.00 0.72+ 1.00 0.00 0.00 0.00 0.00 0.00 0.35+ 0.
DAYS TO FLOWER	# # # # # # # # # # # # # # # # # # #	38.02 0.45 1.29 1.29 1.29 1.29 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
YI BLD KG/HA	4172.54 3804.18 3795.25 3732.74 3566.20 3213.91 2991.55 2991.55 2991.55 2991.55 2991.55 2991.55 2991.55	3147.82 135.41 8.60% 387.01 -0.26+ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		GRAND MEAN  VARIETY HEAN  (*************  IELD KG/HA  S TO MATURITY  DULE WEIGHT 1  DULE WEIGHT 1  LOUIS WEIGHT 2  LANT HARWEST  PER PLANT  SEED WEIGHT 1  LOUIS WEIGHT 1  LERR PLANT  EAST RESET
VARIETY OR CROSS	WILLIAMS CALLAND COLUMBUS CLARK 63 ANSOY 71 BONUS HARK WOODWORTH BERSON CORSOY SWIFT WELLS HODGSON ALTONA	STANDARD ERROR OF A VARIETY HEA  COEFFICIENT OF VARIATIO  LSD VARIETY HEANS (************************************
ENTRY	E401125677000461	STAND

YEAR 1975

	000000000000000000000000000000000000000
PERCENT 01L 22.2 22.4 21.1 23.3 24.7 22.1 22.8 22.9 22.9 22.9 22.6 24.3 25.3 22.0 22.6 24.3 22.6 24.3 22.0 22.6 24.3 22.0 22.6 24.3 22.0 22.0 22.0 22.0 22.0 22.0 22.0 22	00.000000000000000000000000000000000000
PERCENT POTE IN 40.5 59.2 41.9 59.6 57.0 637.6 53.0 58.1 58.1 58.1 58.1 58.1 58.1 58.1 58.1	- PR R D D D D D D D D D D D D D D D D D
OUALITY OF SEED 1.50 2.75 2.05 2.05 2.05 2.05 1.00 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	0
100 SEED WE IGHT 18.20 19.88 16.78 15.75 15.40 15.40 15.40 13.03 14.58 14.58 14.55 15.92 16.92 17.40 17.40 15.40 15.40 15.40 16.40 17.4	1.60 0.62+ 0.23+ 0.00
PODS PER 29.75 33.75 441.75 411.75 57.25 5	* 0000000000000000000000000000000000000
MC MC	* * * * * * * * * * * * * * * * * * *
SH	
EEH	*****  RG/HA PLOMER ATURITY NUMBER 1 NUMBER 2 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 1 WEIGHT 1 I OOF SEED I I I I I I I I I I I I I I I I I I I
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	VARIETY MEANS (********  DAYS TO PL DAYS PR POD SED PR DISEASE DISEASE DISEASE DISEASE
ENTRY NUMBER 113 114 115 12 12 12 12 14 14 14 14 15 15 17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	S% LSD v

YEAR 19	
388	
EXPERIMENT	
163	
90	í

		LODGING	00	00.00	00	0	0	0	00	0	0	0	0.00	00		0	, 0	0	0	0.0	0	1.00	0 0	0	0.	9	000	0 1
		PLANT	ပ္ပါ ထ	67.50	5.0	0	9 0	3,		- LC 1	9.	62.17	2° 02	79		# (**)	9					00.00	0 1	. 60	ħħ.*			0 9 1
		NODULE EIGHT 2	00	00 00	0.0	00	0	0.	, o	0.	00		0.00		01)	0	0	. 0	0	0,0	0	0.00	0 0	0	0.	0.	0.0	001
EG.	Ω.	NODULE WEIGHT 1 W	00	00.00	00	0	0	0	$\circ$	0	00	00 00	00.00	000	+ - PROB=.	00.00	0	0	0	00	0	0.00	00	0	0	0	$\supset$ $<$	
10 MIN. E	UGUST, 1975	NODULE NUMBER 2	0.0	00 00	0.0	0	0	0.	20	0	0		00.00	000	= 05 +-	0	20	2	0	00	$\sim$	00.00	~ ~	20	0	0	$\circ$	0000
- JORDAN N - 580 M E - 36 DEG.	VESTED - AL	NODULE NUMBER 1	00	00.00	0.0	0	0	0.	o	0	0.0	0	00.00	00.	(+ - PROB	0	0,0	0	0	0, 0	0	0	0 0	, 0	0	0.	• °	00.0
COUNTRY ELEVATION LONGITUD	DATE HAR 24%, PH 7.96.0	DAYS TO	8.0	119.25	97.2	13.0	8.0	0-0	5°C	7-2	5.0	110.73	0.52	484	ω	. 17	9 0	.0	0	0.0	9 00	00	÷ <	0.0	# 9 th @	0	٠ •	
2 2 2	62%, CLAY	DAYS TO FLOWER	2.2	63.50	1.0	1.0	2.0	1.2	2 ° 5 3 ° 5	2.5	7.0	٠,	2.10	0.01	ATION		0	000			8 6			9 8		9		00.0
ST 10 MIN	X S 14% S 14% S KG/	YIELD KG/HA	71.5	2976.25	38.1	0.00	61.9	42.9	23.8	04.8	35.7	.5	39	0 <b>*</b>	CRREL	0		- 0	0	00	o m	0	00	>	~	0	0	00.00
ULA DEA	CCUPERATURO - N. DATE PLANTED - NA SOLL TYPE - SAND FERTILIZER USED ( NUMBER CF IRRIGAT	3 9 9 1 1 1 0											VARIETY MEAN	(*************************************	υ	KG/HA	FLOWER	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT A	LODGING	SHATTER	PLANT	1 1-4	OF SEED	H ;	III
REGION - SITE - WA LATITUDE	CCOPERATORS - DATE PLANTED - SOLI TYPER - FERTILIZER US NUMBER CF IRR	VARIETY OR CROSS	CORSOY	SECTION SECTIO	HODGSON	HOODWORTH	COLUMBUS	AMSOY 71	BEESON	CLARK 63	ALTONA	85 85	STANDARD ERROR OF A VARIETY			YIELD	DAYS TO	NODULE	NODULE	NODULE	TNA.TO		2 6 1 K 1 C	PODS PER	100 SEED	OUALITY	DISEASE	DISEASE
		ENTRY	90	τīα	ים לבו ( ר	12	0L m	S.	7 1 1 1 1	-	2		STANDA	5% LSD V														

ENTRY

388	
EXPERIMENT	
163	
FABLE	

YEAR 1975

			000000000000000000000000000000000000000
		5	000000000000000000000000000000000000000
		- AD AD A B A B A B A B A B A B A B A B A	
QUALITY OF SEED		0.00	000000000000000000000000000000000000000
OO SEED WEIGHT	12.38 10.63 11.00 11.00 11.00 10.63 10.63 11.25 11.25 11.25 11.25	11.00 0.33 5.98% 0.94 - PRORE	000000000000000000000000000000000000000
PODS PER 1 PLANT	73.75 140.00 71.25 66.25 46.25 95.00 83.75 113.75 75.00 47.25 75.00 58.75	72.25 5.93 16.42%	*** *** *** *** *** *** *** *** *** **
PLANTS F	000000000000000000000000000000000000000	00000000000000000000000000000000000000	
SHATTER	000000000000000000000000000000000000000	0.00 0.00 0.00 0.00 8 E L A	000000000000000000000000000000000000000
		D MEAN Y MEAN IATION **=NS)	
VARIETY OR CROSS	CORSOY FORREST WELLS WELLS HODGSON WILLIAMS WOODWORTH COLUMBUS HARK AMSOY 71 BEESON CALLAND CLARK 63 ALTONA	GRAN STANLARD ERROR OF A VARIET COEFFICIENT OF VAR LSD VARIETY MEANS (******	YTELD DAYS TO DAYS TO NODULE NODE SEED OUT DISEASE DISEASE
ENTRY	8 6 5 8 4 E 7 5 1 1 1 2 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1	STAND!	

			1	į.v.l	ΟI	7	7	~	CIN	01	n	7		C)	0	LC	20	7	_	(7)	~	7 5	×
			1 1 1 1 1	NCDULE	WEIGHT 2	5.47	6.87	6.18	5.79	C . 4	aL . 4	7.67	6.44	5.8	5.59	6.6	5.2	4.5	6.27	5.99	0.78	25.937	**
		1975	1	NCDUIE	WEIGHT 1	2.62	3° 52	2.93	2,38	4.12	4.10	2.11	1.67	1.80	1.83	1.42	1.57	1.76	1.84	2.43	0.28	23.22%	0.81
		SLPTEMBER,		NODULE	NUMBER 2	383.75	366,50	442.50	303.75	479.50	387.50	416.75	346.75	378.75	371.25	3 CE . CO	287.53	205.00	353,00	C		30.12%	***
	- LEBANON	HARVESTED - 3		NODULE	NUMBEE 1	217.00	221.50	177.00	221.00	343,00	337.25	215,50	226.75	204.25	149.75	118.75	177.75	116.25	157.50	205.95	34.38	33,39%	98,34
YEAR 1975	CCUNTRY -		20.0	DAYS TO	MATURITY	141.00	145.00	129.00	124.00	142.03	124.00	126.33	126.00	126.00	119,00	129.00	115.00	101.00	121.50	126.61	0.67	1.36%	1.91
409 X1	z		50.0° P	DAYS TO	FLOWER	59.00	52.00	57.00	56.00	56.00	63.00	53.00	52.00	52.00	48.00	51,00	44.00	19.00	53.25	51.09	0.33	1.31%	95 °C
EXPERIMENT 4		RAION - S. ALO SHANKA FLANTED - MAY 18, 1975 TYFE - CLAY, PB 8.1	(KG/HA) - N	YIELE	KG/HA	2896.41	2710.96	2677.62	2604.69	2600.52	2538.01	2508.83	2419,23	2227.53	2215.33	2146,68	1908,71	1802,86	1425.28	2334.45	139,01	11.91%	397.65
TABLE 164 E	REGICN - MIDDLE SITE - EECA'A LATITUDE - 33 DE	COUPERATOR - S. BLU SHARKS LATE FLANTED - MAY 18, 197 SCIL TYPE - CLAY, PH 8.1	FERTILIZER USED (KG/HA)														-			GRAND MEAN	F A VARIETY MEAN	ENT OF VARIATION	* ISE VARIETY MEANS (********NS)
				VARIETY	OF CRCSS	HARK	SWIFT	HCDGSON	AMSOY 71	ALTONA	COFSOY	WEILS	CCLUMBUS	CLARK 63	WILLIAMS	FOFREST	WCCDWORTH	BCNUS	CALLAND		STANDARD ERROR OF	COFFEICIENT	ARIETY MEAN
				ENTEY	NUMEEF	3	N	77	u)	_	ę	100	9	0	2	8	1	7	(*)		STANEL		ISI K

0.12	0.12	0.04	+0°0-	0.04	90.0-	-0.19	0.16	-0.23	OF SEED	OUALITY
-3.21	0.24	).28+	0.43++	0.23	0.17	0.78++	0.31+	0.50++	WEIGHT	OO SEED
0.63++	0.45++	0.03	0.45++	0.20	0.42++	0.09	0.32+	0.29+	PLANT	PODS PER
00.0	00.0	00.00	00.0	00.0	00.00	00.00	00.00	00.0	HARVEST	PLANIS
0.00	00.00	00.00	00.0	0.30	00.0	0.00	0000	0.30	SHATTER	
1.00	0.53++	-0.22	++1110	90.0	0.41++	-0.07	0.33+	0.12	LCDGING	
0.53++	1.00	0,11	0.57++	0.30+	3.51++	0.58++	0.83++	0.48++	PEIGHT	PLANT
-0.22	0.11	1.00	0.03	0.58++	-0.03	0.28+	0.19	0.14	WEIGHT 2	NODULE
0.44+	0.57++	3,33	1.00	0.36++	0.70++	0.53++	0.41++	++910	WEIGHT 1	NCDULE
0.06	0.30+	0.58++	0.36++	1.00	0.38++	0.36++	2.40++	0.24	NUMBER 2	NCDULE
0.41++	0.51++	-0.03	0.70++	0.38++	1.00	0.37++	++ + + + 0	0.38++	NUEEER 1	NODULE
-0.37	0.58++	0.28+	0.53++	0.36++	0.37++	1.00	0.71++	0.58++	MATURITY	DAYS TO
0.33+	0.83++	0.19	0.41++	++050	0°44+	0.71++	1.00	0° 47++	FLCWER	DAYS TC
0,12	0.48++	0.14	0.46++	0.24	0.38++	0.58++	0.47++	1.00	KG/HA	YIELD

1.14 0.00 0.00%

94.73 3.09 6.53% 8.85

11.00 11.00 11.00 11.00 11.00 11.00 11.00 11.00 10

96.25 96.25 107.75 108.00 108.00 107.25 137.25 89.00 91.00 86.30 87.25 54.25 93.25

PIANT EFIGET

YEAR 1975
EXFEBIRENT 409
TABLE 164

00   H H H H H H H H H H H H H H H H H H	PRCB= .018 PRCB= .010 PRCB= .010 PRCB= .010 PRCB= .010 PRCB .012 P
100 SEED 20.81 22.72 17.94 18.95 16.82 16.98 17.18 17.18 17.18 17.16	18.45 19.60 10.00 10
PODS PODS PIERR PODS PIERR PODS PODS PODS PODS PODS PODS PODS PODS	30.64 3.45 22.54% 9.88 9.88 0.22 0.29 0.42+ 0.23 0.42+
# PPLIAN   P	0000 + 00000000000000000000000000000000
SII H T E H C C C C C C C C C C C C C C C C C C	
	GRAND MEAN ARIETY MEAN F******NS)  R E L A T I  R E L A T I  TC MATUEITY TC MATUEITY TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 2 TLE NUMBER 1 TLE NUMBER 1 TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 1 TLE NUMBER 1 TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 2 TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 1 TLE NUMBER 2 TLE NUMBER 2 TLE NUMBER 3 TLE NUMBER
VARIETY CR CROSS HARK SMIFT HOLGSON ABSOY 71 ALTONA CCRSOY WFILS WILLIAMS FCREET WCCDWCRTH BONUS CALAND	ARD EBRCR OF A VA COFFFICIENT OF VARIETY MEANS (** VARIETY MEANS (** VARIETY MEANS (** VARIETY MEANS (** PLANT POES FE 100 SFE 100 SFE
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	대 22 대 전 제 대

YEAR 1975
EXFERIMENT 386
TABLE 165

REGION - MIDDLE EAST

SITE - AL-HASSA

LATITUDE - 25 DEG. 20 MIN. N

LONGITUDE - 49 DEG. 10 MIN. E

COPERATOR - 49 DEG. 10 MIN. E

COPERATOR - 49 DEG. 10 MIN. E

LONGITUDE - 40 DEG. 10 M

DNIDGOT	000000000000000000000000000000000000000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
PLANT	48.05 77.10 47.10 37.30 27.30 27.33 27.28 51.28 51.28 51.28 51.28 51.28 75.20 75.30 47.35 43.68	2. 16 1. 84 7. 99% 7. 99% 6. 00 1. 00
NODULE WEIGHT 2	000000000000000000000000000000000000000	K 0000 0000 0000 0000 0000 0000 0000 0
NODULE WEIGHT 1	000000000000000000000000000000000000000	+ + BB - C - C - C - C - C - C - C - C - C
NODULE NUMBER 2	000000000000000000000000000000000000000	**************************************
NODULE NUMBER 1	000000000000000000000000000000000000000	+
DAYS TO	110.25 96.50 91.25 90.00 91.25 89.00 87.50 87.50 87.50 87.25 87.25	89.85 1.28 4
DAYS TO FLCWER	45.00 38.00 38.00 38.00 38.00 28.00 28.00 48	35,70 0,33 1,84% 0,94 0,94 1,00 0,00 0,00 0,10 0,11 0,11 0,11 0,1
YIELD KG/HA	2145.43 1953.72 1669.09 1566.98 1556.56 14376.13 1306.93 1260.25 1260.25 1078.13	1422.81 45.00 45.00 128.62 1.00 0.00 0.00 0.00 0.00 0.00 0.01 0.24 0.24 0.00 0.00 0.01 0.27 0.01 0.01 0.01 0.01 0.01 0.01
0 7 9 5 9 6 7 8 8 8 8		GRAND MEAN (******=NS) (******=NS) (******=NS) (ST O ATURITY DULE WUMBER 1 DULE WUMBER 1 DULE WEIGHT 1 DULE WEIGHT 2 STANT HARVEST SPER WEIGHT 2 ANTS HARVEST SPER WEIGHT 1 STANT COGGING SHATTER ANTS HARVEST SPER WEIGHT 1 STANT STANT SPER WEIGHT 1 SPERS III
VARIETY OR CROSS	BOSSIER JUPITER JUPITER DAVIS PORREST HAMFICN 266A HAMFICN 266A CLUMEUS CALLAND CLARK 63 CLARK 63 TMPROVED PELICAN SEMMES WILLIAMS TRACY COBB	STANCAED ERROF OF A VARI COEFFICIENT OF V  YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE NODULE NODULE NODULE NODULE DISEASE DISEASE DISEASE DISEASE
ENTRY	9 T T T T T T T T T T T T T T T T T T T	STANDAR 1SD VA

+ +

																					00.00	00 0	00.0	00 00	00 0	00.00	00.00	00.00	00.00	00 0	00 0	00 00	00 00	00 0	00 00	00.00
PERCENT OIL	26.4	24.8	24.7	28.6	26.8	26.1	23.5	25.4	25.4	22.8	23.3	22.7	23.2	22.7	24.3					01)	0	0,	. 0	0.	0	0	0.	0,	0.	00.00	0.	0.	0.	0.	0.	0.
PERCENT	30.7	35.7	36.1	26.0	31.5	31.5	39.9	36.8	35.8	41.2	36.8	42.4	37.2	38.1	38.0					- PROB=.		0	0.	- 9			. 0	0		00-0	0	0		- 0		0
QUALITY OF SEED	1.00	3.00	1.00	2,25	1.75	1.25	1.25	2.50	1.50	1.75	1.50	1.50	1.75	2.00	2.50	1.77	0.24	26.83%		*05 ++	-	-	0	0.	0	0	0	e.		-0.07	-	9	0	0	0.	0.
00 SEED WEIGHT	10.80	2	<i>□</i>	9	-	2	2	8	q-	7	⇒	9	9	0	06°6	10.87	. 2	4.70%	. 7	(+ - PROB=	0.27+	-0.11	0.20	00.00	00.00	00.00	00.00	90.0-	60-0-	0.38++	0.15	-0-14	1.00	0.03	00.00	00.00
OLS PER 1 PLANT	30.75	7 .	9	0	3	3,	7 .	7.	0	0	2	÷	3°	9	e œ	26.58	0.95	7-14%	2.71		0.62++	0.78++	0.71++	00.0	00 00	00°0	00.00	0.50++	0.56++	0.08	0.29+	1.00	-0-14	0.12	00 0	00°0
PLANTS P	201.75	203.50	196.00	199.00	201.25	201.50	204.75	199.00	197.00	196.75	197.50	200.25			194.25	199.30	3,22	3.24%	****	TIONS	0.31+	0.16	0.29+	00 0	00.00	00.0	00.00	0.07	0.05	0.22	1.00	0.29+	0.15	0.13	00°0	00 0
SHATTER	1.00	2.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.47	00.00	0.00%	000	CRRELA	-0.03	0.11	0.04	00°0	00.00	00.00	00 0	-0.23	0.03	1.00	0.22	0.08	0.38++	-0.07	00.00	00.00
																0	<b>&gt;</b>	$\vdash$	分长	υ	KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	LODGING	SHATIER	HARVEST	PLANT	WEIGHT	OF SEED	I	II
VARIETY OR CROSS	BOSSIER	121	DAVIS	FORREST	HAMPICN 266A	HARDEE	COLUMBUS	CALLAND	CLARK 63	IMPROVED PELICAN	SERES	WILLIAMS	TRACY	COBB	WOODWORTH	GRAN	ERRCR OF A	COEFFICIENT	VARIETY MEANS (*****		SLD	E O		(±)	[22]	927	DULE				NTS	PER		[Del]	SE	DISEASE
ENTRY NUMBER	9	-	7	6	2	3	10	14	11	17	15	13	8	2	12		STANLARD		5% LSD																	

YEAR 1975

EXFERIMENT 386

		LOEGING	000	000	0,00	2	00000000000000000000000000000000000000	00.00 00
		PLANT	2.00	7.6 1.2	0.00 7.00 0.00	12.83 12.73 17.65 14.70	18.52 11.65% 3.08	+ + + + + + + + + + + + + + + + + + +
		NCDULE WEIGHT 2	000	000	0.00	00000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
	76	NODULE WEIGHT 1	000	000	0000	00000	% 0000	FECB====================================
	BIA BRUARY, 19	NCDULE UMBER 2	000	770	0 20 71	2.75 1.25 2.00 2.75	1.75 0.98 111.47% *****	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	SAULI ABB - 83 M ABB ESTEL - FE	NODULE UMBEE 1 N	0.00	.72.	.2.	0.00	0.93 0.59 127.17%	(+ - PROE= -0.27+ -0.15 -0.15 -0.15 -0.15 -0.00 0.00 -0.08 -0.26+ -0.26+ 0.02
R 1975	CCUNTRY - ELEVATION DATE HARV	DAYS TO ATURITY N	1.5	7.0 2.7 0.7	7.0	81.25 77.50 86.25 81.33 77.25	82.82 0.40 0.93%	0.40++ 1.00 1.01++ 1.00 0.015 0.031 0.31+ -0.13 -0.13 0.27+
2 YEA	1975 .7 26.2, K 33	EAYS TC FLOWER M	6.00	5.7	6.0	26.50 27.00 28.50 26.25 25.75	27.00 0.30 2.23% 0.86	T I O N S 10.013
PERIMENT 38	ast EL-Manakby VEMEER 18, VEMBER PH, KG/HA) - P KG/HA) - P E - 15 MM	YIELD KG/HA	21.9 15.3 70.7	81.1 40.2 86.9	43.1 30.6 80.2	966.44 962.28 958.52 763.57 729.31	1106.05 133.27 24.10% 380.35	0 R E E L A 1.00 0.10 0.10 0.00 0.00 0.00 0.00 0.0
166 EX	JUZAN JUZAN JUZAN A.M. A.M. SILTY SED ( ISTUR RIGAT	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					GRAND MEAN RIETY MEAN VARIATION ******	KG/HA PLCWER MATURITY NUMBER 2 WEIGHT 1 WEIGHT 2 MEIGHT 2 LODGING SHATTER HARVEST WEIGHT VEST PLANT
TABLE	REGION - MID SITE - WALI LATITUDE - 1 CCCFERATCE DATE PLANTED SCIL TYPE - FERTILIZER U AMOUNT OF MO	38	~ ~	U U E	E PELICAN	тн : : 266л	F A VA FNT OF	YIELD DAYS TO NOBULE NOBULE NOBULE NOBULE NOBULE NOBULE PLANT PLANT PLANT OG SEER
		VARIETY OR CROSS	JUFITER BOSSIER DAVIS	COLUMBUS CAILAND WILLIAMS	CLARK 6 IMPROVE COBB	SEMMES WCODWOR' HARDEE FORREST TRACY HAMPTON	ARD FRRC CCEFI	
		ENTER	- w r-	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- a u	#. (Y M O) @ (Y	S TANELS I S I S I S I	

-		(	1 1 1 1	1		
CRO	SHATTER	E V	ODS PE PIAN	SEE	UALIT F SEE	
JUPITER	1.00	Ŋ	7	20.03	2.00	
BCSSIER		S	.5	18,23	1.00	
DAVIS		0	6.	18.85	1.00	
COLUMBUS	1.75	0	7 .	19.83	1.00	
CALLAND	$\sim$	7	٤,	21,30	2.00	
WILLIAMS	N	5	-	20.43	1,25	
CLARK 63	0	2	. 2	17,95	1.00	
IMPROVED PELICAN	0	R.J	7.	14.28	1.00	
COBB	-	(	.2	17.88	1.00	
SEMMES	0	7	7.	17,75	2.00	
WOODWORTH	0	7	0	18, 35	1.00	
HARDEE	0		. ~	16.40	2.00	
10		ш	. ~	17.25	2 00	
		7	7	17.08	LC o	
3 3 C W	) C	- L			? <	
007 N	>	n	0	18°45	0	
GRANE MEA	1.63	9	77.	18,27	1.45	
EFROR OF A VARIETY MEA	0.17	9	2 -	7	0,10	
PICIENT OF VARIATIO		6 7	8.03	.70	13.32%	
RIETY MEANS (*******NS		98	3.46	.01	. 2	
CCRRELATI	S N	+)	PROB=.05	++ + P	ROB=.01)	
YIELD	3	37+	O	0	-0.22	
AYS TO	5		0.27+	-	0.0	
AYS TC MA	$\overline{}$		0 39+	0	0.27+	
Z	2	_	-0.26+	0	0.02	
Z	~		-0.00		-0.13	
3	0	_	00.00	0	00.00	
34	~		). )3	·	00.0	
	5	_	0.32+	0	-0.16	
ICDGING	0		-0.01	0.45+		
0,1	0		-).35++	_	0.05	
I SINT	0		-0.01	0	0.07	
OLS PER	$\sim$		1.)3	ن	- 1, 13	
00 SEED			0.18	-	0.08	
) XII	0		- 0.13	), )8	1.00	
Ø >	VARLETY  VARLETY  JUPITER  BOSSIER  BAVIS  COLUMBUS  CALLAND WILLIAMS  CALLAND WILLIAMS  CALLAND WILLIAMS  CALLAND WILLIAMS  CALLAND WILLIAMS  CALLAND WILLIAMS  CALLAND  SEMMES  RODWORTH  HAMPOULD  GRANL MEAN  GRANL MEAN  COEFFICIENT OF VARLATION  COEFFICIENT OF VARLATION  RAPTON 266A  RAPTON 266A  COEFFICIENT OF VARLATION  RODULE NUMBER 1  NCDULE NUMBER 2  NCD	## ARRIETY    JUPITER	VARIETY  VARIETY  OF CROSS  JUPITER  BCSSIER  BCSSIER  BCSSIER  1.25 191.00  DAVIS  CALLAND  WILLIAMS  CALLAND  WILLIAMS  CALLAND  WILLIAMS  CALLAND  WILLIAMS  CALLAND  WILLIAMS  CALLAND  WILLIAMS  CALLAND  1.75 190.75  145.25  168.50  COBB  SEMMES  WOODWORTH  HARDEE  FORREST  RANDHONTH  ARDEE  FORREST  RANDHONTH  ARDEE  FORREST  RANDHONTH  ARDEE  FORREST  RANDHONTH  ARDEE  FORREST  COEFFICIENT OF VARIATION  CCRR ELATION  CCRR ELATION  WILLIAMS  CCRR ELATION  WILLIAMS  CCRR ELATION  WILLIAMS  WILLIAMS  CCR R ELATION  CON 32+  CO	## PLANTS PODS  UPLER  JUPITER  JUPITER  BOSSIER  JUNITAMS  CALLAND  WILLIAMS  CALLAND  WASHETY MEAN  CALLAND  WASHETY   VARIETY  OF CROSS  VARIETY  PLANTS PODS PER 100 SEED  BOSSIER  BOSSIER  BOSSIER  COLUMNUS  ALLIAND  WILLIAND  WILLIAND  WILLIANS  WILLIA	UNDUTER 1.25 191.00 SER 100 SER 0 DAN  BLANTER HRRVEST PODS PRR 10 PF 50 DAN  BUSTER 1.25 191.00 114.40 19.83  CALLUNG COLUMBUS 1.25 192.75 19.00 19.83  CALLUNG COLUMBUS 1.25 192.75 19.00 21.30  WILLIAMS 1.25 192.75 19.00 21.30  WILLIAMS 1.25 192.75 19.90 21.30  WOODENERTH MARNE 1.25 192.75 11.29  CORNECT 1.25 192.50 19.55 11.29  WOODEN WARMINION 0.17 6.65 13.44 18.27  CCRR ELATION 0.17 0.49 18.98 3.46  WILLIAMS 1.20 N.20  WOODEN WHERE 1 0.03 1.20  WOODEN WHERE 1 0.027 0.00 0.00  WOODEN WHERE 2 0.02 0.00 0.00  WOODEN WHERE 2 0.02 0.00 0.00  WOODEN WHERE 2 0.02 0.00 0.00  WOODEN WEIGHT 0.	

YEAR 1975

EXFERIMENT 382

		IOEGING	0.57	0 - 1	7000	000 mm dr dr	3 · 37 0 · 41 24 · 64 // 8 ******	-0.622 -0.033 -0
		PIANT	3.2	1.7	2007	115.25 117.50 94.75 143.75	113.95 7.63 13.39% 21.77	* * * * * * * * * * * * * * * * * * *
		NCDUIE WEIGHT 2	000	000	0000	000000	0.00 0.00 0.00 0.00	
	M 1975	NOLULE WEIGHT 1	E 0 0		2000	2.17 2.27 1.42 1.46	* * * * * * * * * * * * * * * * * * * *	- FBCB=. - 0.12 - 0.17 - 0.17 - 0.00 - 0.19 - 0.19 - 0.19 - 0.10 - 0.
	EPTEMBER,	NCDULE NUMBER 2	000	.00.	0,00			
	N - 0.5.A. E - 820 B. VESTED - S	NODULE NUMBER 1	0.45	2.5	0.00	170.25 233.50 211.)) 199.75 182.5)	m - F2 7	+ PROF - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
AR 1975	CCUNTRY - ELEVATION LCNGITUD DATE HAR	DAYS TO	29.0 31.0 29.0	33.) 17.0 40.0	37.0	117.00 141.00 148.)) 117.00 168.))	133.47 0.00 0.00% 0.00%	
E Y E	35. ), K 60	LAYS TC FLOWER	9.0	9.7	4.7	43.00 40.50 42.00 42.25 79.50	44.68 2.87 12.85% 8.19	-0.26+ -0.10 -0.10 -0.17 -0.17 -0.17 -0.17 -0.17 -0.17 -0.17
PERIKENT 43	ERICA LINOIS • 7 MIN• N OY Y 16, 1975 KG/HA) - P	XILLD KG/HA	317.5 186.2 176.2	124.9 001.2 925.7	818.6 684.0 579.0	3471.53 3448.19 3334.42 3286.91 2910.17	75.82 19.23 17.37	0 R F E L A CO
167 EX	ON - NORTH AM TUDE - 40 DEG ERATCE - INTS PLANTED - MA PLIZER USED (	8 8 1 8 1 1 1 9					MEAN MEAN TION	KG/HA FLCWER MATURITY NUMBER 1 NUMBER 2 WEIGHT 1 WEIGHT 2 WEIGHT 1 WEIGHT 1 PLANT WEIGHT CF SEED
TABLE	REGION - NO SITICUDE LATITUDE - CCOFERATOR DATE PLANTE SCIL PIL 6.5 FENTILIZER	VARIETY OF CROSS	WILLS COBSOY BEESON	AMSOY 71 HARK CLARK 63	WILLIAMS WOODWORTH BCNUS	SWIFT COLUMBUS CALLAND HODGSON FCRREST ALIONA	GRAND NDARD EFROR OF A VARIETY COFFFICIENT OF VARIA I VARIETY MEANS (*******	YIELD DAYS TO DAYS TO NCDULE NCDULE NCDULE NCDULE PLANT POLS FER 100 SELD
		FNTEN			C) C(U)	~~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	STANDARD SY ISL VAR	

PERCENT OIL	22.7	23.2	23.5	23.9	23.2	22.8	23.0	22.6	21.8	23.4	21.1	21.3	23.5	20.8	22.2																		
PERCENT PER	41.6																																
QUALITY FOR SEFE	0	1.	2.	.2	7.	7.	.2	7	. 2	CA	0	0.	5	2.75	1.	1.85	0.30	31.042		ROB=.01)	-0.31+	0,21	-0.08	-0.21	00.00	0.02	0.00	0.1	-	_	0.01	_	-
100 SEED (	13,13	13,75	16.65	15.30	14.53	14.08	15.45	14.58	13.83	14,10	13.43	13.03	13.90	11.65	14.70	14.14	• 75	10.55%	)	++ - PRO	0.30+	38+	-0.33++	0.05	00.00	0.20	0.00	-0.53++	-0.22	00.00	0.01	00 00	7
PODS PER FLANT	0.00	00.00	3, ))	0.00	0.03	0.00	00.00	0.1)	0.00	00.00	00.00	00.00	),))	0.00	0.00	3, 33	00	× 00 0		PROB=.05	00.00	0.00	00.00	0.0)	0.00	00.00	0.00	00.00	0.00	00.00	0.00	1.00	
PLANTS		~	10	-	-	0.1		_	Phone	P==	01	1	$\bigcirc$ I	132.50	Pro-	- 0	9.38	13.26%		+)	0.04	-0.17	-0.11	0.32+	00.00	0.17	00.00	-0°0e	-3.36	00.00	1, 30	0000	
SHATTER	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1, ) )	1.00	1.00	1.00	1.00	1.33	1.00	1.00		000	% 00°0	2	C N S	0.00	0.1)	00.00	0.10	00.00	00.00	0.0	0.0	3.)	1.0	0.00	00.0	
																MEA	REA TEA	VABLATION	1	EIATI	KG/H	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	BEIGHT	LODGING	SHATTER	HARVEST	4 :	2 (1)
VARIETY OF CROSS	WELLS	CORSOY	BFESON	AMSOY 71	HARK	CLARK 63	WILLIAMS	WCCDWORTH	BCNUS	SWIFT	CCLUMBUS	CALLAND	HCEGSON	FCRREST	ALTONA		RD ERROR OF A VA	3 *		CCRR	YIELD	DAYS TO	AYS TC	NCEULE	NCDULI	NCDULI	NCDRI	PLANT			PLANT	7 1	1 1 1 C C C
ENTEY	3	ę	1	u i	(*)	+	L.)	12	15	7	10	14	J	5	-		STANDA	ISI KS															

YEAR 1975
EXFERIMENT 651
BIE 168

[2]			
MIN	1976		
COUNTRY - FIGI ELFVATION - 14 M LONGITUDE - 177 DEG. 27 MIN.	DATE MARVESTEE - MARCH, 1976	.8 US, BEESON	
REGICN - CCEANIA SITE - LEGALEGA LATITUDE - 17 DEG. 45 MIN. S	CCOEERATORS - A. NAVURA, S.G. VESFER DATE PLANTED - DECEMBER 19, 1975	SUBSTITUTE VSED (KG/HA) - P 15.3, K 54.8 AMOUNT OF MCISTURE - 1176 AM SUBSTITUTE VARISTIES - PICKETT 71, BCNUS, BEESON	

LOEGING	000.1		1.00	9 9		1.00			1.00	0	0	0		0	0.	0	0	0.	0	0	0.00	? (	0.0	0	0	0	0
PLANT	43.75 32.50 30.75	2000	7.5	3.7	6.2	1.2	2.5	0° 0		2	٦.	Φ,									1.00						0.1
NCDULE WEIGHT 2	000000000000000000000000000000000000000		000	0.00	00.00	0000	00 0	0.00	0.	0	0.	00 0	01)					0			0.00						• 1
NODULE WEIGHT 1	0000	9.00	000	00	0.	, 0	0	· ·	0			0	+ - PECB=.	0	0.0	0.0	0.0	00.0	0	0.	0.00	0 '	0	0.0	0	0.00	00"0
NCELLE NUMBER 2	16	76.774.3	5.7	46.7	44.2	73.5	56.2	06.7	8.3	17 17	9.9	5.7	+ 05 +		٤,		640				0.36++	•	· .	C,	0	٦.	9 1
NODULE UMBER 1	151.50 224.53 144.75	97.	74.	, e		3 10	(L)	10	8,5	31.33	9.5	9° ti	(+ - PROE	.2	.50+	77 °	0.	77 .	0	00.	0.65++				0.08	0.12	-0.02
DAYS TC ATURITY N	113.00	777	2.5	3.0	0 .	0.0	3.0	3.0	. 2	2.17	.5			0.45++	0.95++	1.00	++0 10 0	3.27+	00"0	00.0	0.26+	00.00	-0.54++	-0.07	0.62++	90.0	-0.01
LAYS TC FLOWER M	39.00	دا ر	100	2.2	LC)	2 5	0	. 5		0.77			TICNS	77.	0	.95÷	L( )	٠,	0	0	0.38++	0	7 .	0.	.5	0.	0 1
XIELD KG/HA	3107.77 2952.52 2856.83	100 to 10	84.1 76.9	75.2	10.4	38.7	92.1	27.1	5	191.89	9	99	ORRELA	0	7	7	2	-	0	0	0.15	0	0	7	0	-	0 1
									RAND MEAN	VARIETY MEAN	VABIATION	(SN=******)	O	KG/HA	FLOWER	MATURIT	-	NUMBER 2	WEIGHT 1	WEIGHT 2	BEIGHT	LODGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED
VARIETY OR CROSS	2	DICKETT 71 JUPITER	CCLUMHUS FORREST TRACY	WILLIAMS	CALLAND	BONUS	COBB	CLARK 63	10	STANDARD ERROR OF A VARI	COEFFICIENT OF	VARIETY MEANS (***		YIELD	DAYS TO	DAYS IO		NCEULE	NCDULE	NCDULE	PLANT			PLANTS	POLS PER	100 SEED	QUALITY
ENTEY	mrv	ਕ ਦਾ (	၁ က ထ	را در در <del>د</del>	14	1 m (r)	4 LL 7	11		STANEA		SA ISI V															1 0 0 0 0 0

UEC)	QUALITY OF SEED	(			3.00		2.00	2.75	1,25	3,25	1.25	3.50	3.00				2.50	2.55	0.25	19.67%	0.72	ROB=.01)	-0.07	- 3, 39	-0.C1	-0.02	0.11	00.00	0.00	-0.07	0.00	-0.03	- 0 . 10	_	0.31+	1.33
(CCNTINUED	100 SEED WEIGHT	1	50.71	18,00	18.20	18,83	17.88	17.13	13.43	19.45	19,85	19,65	17,33	18,13	16.65	17.85	17.13	17.82	).65	7.24%	1.34	++ PB	0.17	-1,15	0.06	0.12	0.11	00.00	00.00	0.06	0.00	0°0	3.07	-0.11	1.00	0.31+
R 197	PODS PER PLANT		ن	å	67	~	ç	24.40	э Э	וט	07	15.98	6	ω	2	50.43	9	30.54	2,89	18.83%	2	PROB=.05	0	LC	40		0	0	0	-0.07	0	-	-).66++	1.00	-0.11	).11
1 YEA	PLANIS P		0	_	. 7	10	160.00	190,50	181.75	111.25	161,50	190,25	164,25	178.25	52.25	29.25	27.33	140,73	9.68	13,76%	CCS	d - +)	0.70++	- ), 12	-0.07	3.37	0.34++	0.00	00.0	0.17	3.30	0.28+	1.33	++99.0-	0.07	-1.13
PERIMENT 65	SHATTER		1.25	1.))	1.00	1.50	1,00	1,75	1,25	1.25	1.75	2,00	2,00	1.75	1,50	1,00	1.25	7	0.20	5	0.5	N O	-0.09	-0.47++	-0.54++	- ),11	-0.08	0.00	0.00	0.15	0.00	1.00	0.28+	++6 % 0 0 -	0°00	-0.33
TABLE 168 EX	ENTEY VARIETY ALFEE OR CROSS		HABLEE		6 BOSSIER		1 JUPITER	COLU	FCRREST				CA	BCNIIS		COBB	11 CLARK 63	GRAND MEAN	STANDARD ERROR OF A VARIETY MEAN	COFFFICIENT OF	ETY MEANS (*	CCKRELATIO		AYS TO		NCDULE				PLANT BEIGHT		SHATIER	Z	日日日	FED	>-

	LOEGING	0	0	1.00	3 C		0	0	0.	0	1.33	0	00.00		0.0	0.0	0.0	0.0	(°0 +	, <		0		0.	0	00.0
	PLANT	5.2	4.0	33,28	7 0 7	, c	3.1	8.7	2.9	0 8	~	.75	5.07			-0.35+	0	0.32	00	- 7 -	0		9			08.0
	NCEULE WEIGHT 2			0.68	۰						1.79	0.28	% † & * * * * * * * * * * * * * * * * * *	01)	0.15	0	7.	.03	7.		2 7	000	۲.		-	0.10
ы	NOCULE WEIGHT 1	9 .	. 2	0.63	† =	9 (0	CJ S	ع	ا (ب	Φ.	m,	0.14	24.08%	+ - PRCB=.	0.08	-0.11	0-	0	0.23	- <		0	3.33	00.00	0.10	0.28
G. 46 MIN. ARCH, 1976	NCEUIE NUMBER 2	3 . 2	1.7	39.25	) = =		5.7	4.7	6.0	8.7	9.	3.89	71.92%	+ 0€ +			60.			. 23		00				-0.01
V = 131 N = 20 M E = 178 DE VESTEL - M	NODULE NUMBER 1	0	0.	30.50	. 2	. r		.2	. 7	. 2		99°6	84.15%	(+ - PROE	0.31	-3.31	0.01	1.00	45+	0.66+	0.32+	00.00	0.33	0.12	0.01	0.06
COUNTRY - ELEVATIO LONGITUDD CATE HAR SW, FH 4.9	DAYS TO	. 7	.5	92.00	೧೪	0.0		. 2		٠ ٦	• 5	.32	4.66%	v	0.05	3.21	1.00	0.01	0.09	50.0-	7.00	00.00	3,13	0.21	3.1)	-0.23
S. VESPER 1975 A. 15.3, K. S. EIT 71, BC	CAYS TC FLOWER	CA	. 2	35.25	٠,		. 0	נט	. 7	n,		. 03	5.54% 2.96	ATION	٠,				0	j,		0				-0.42++
G. 37 MIN. S PRASAD, S.C ECEMBER 16, 70%, SILI (KG/HA) — P KE — 24)0 MR	YIELD KG/HA	u . 8	4.7	833,50	7.7	) c	0.0	3.0	3.4	7.5	7.4	8,70	25.82%	OREEL		~		CO.	m	~ ·			-	-	_	0.11
REGICN - CCEANIA SITE - SEAQAQA LATITUDE - 16 DEG CCOPERATORS - M. DATE PLANTED - DE SCIL TYPE - SAD I FERTILIZER USED I AMOUNT OF MOISTUR SUBSTITUTE VARIET											GRAND		OF VARIATION (********)	S	YIELD KG/HA	S TO FLOWER	T 0	NUMBER	NUMBER	MEIGHT	NCLULE WEIGHT Z	7 5 6	SHATTER		PER PLANT	OO SEED WEIGHT
H H H N D C L N H H H H H H H H H H H H H H H H H H	VARIETY OR CROSS	COLUMBUS	WILLIAMS	BONUS	TRACI	FORKEUT	PICKETT 71	H	BOSSIER	CLARK 63		STANDARD ERROR OF A	COEFFICIENT VARIETY MEANS		Y	DAYS	DAYS	NC	NC		NCL	4		PL	PODS	100 SEED
	ENTEY	ę	5	(°) :	3° L	ı, <b>E</b>	2 -	. س	7	7		STANE	5% ISI													

	1 2 3 1 1 1 1	
UEL)	QUALITY OF SEED	3.25 3.25 3.00 2.75 3.00 2.75 2.00 2.75 3.00 2.75 3.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
(CCNTINUEE)	100 SEED WEIGHT	19.00 18.25 17.25 17.75 16.50 16.50 16.25 16.25 18.03 0.51 18.03 0.51 18.03 0.51 19.03 0.01 0.03 0.03 0.00 0.00 0.00 0.00
XEAR 1975	PODS PER	255 21.00 21.00 21.00 21.00 21.00 21.00 21.00 22.00 23.25 23.25 23.25 24.75 25.00 26.00 27.5 21.00 28.25 29.60 20.77 5.20 20.77 6.72 47+ -0.07 21.00 21.00 22.00 23.25 24.75 27.50
	PLANTS	138.25 163.25 164.75 115.25 115.25 151.75
EXPERIMENT 650	SHATTER	A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
169 EX	] ] ] ] ! ! !	GRAND MEAN OF VARIATION OF VARIATION (********S)  R R E L A T I KG/HA 5 TO MATURITY DULE NUMBER 2 DULE WEIGHT 1 ELIGHT 1 ELIGHT 1 ELIGHT 1 ELIGHT 1 ELIGHT 2 EANT ER HEIGHT 1 ELIGHT 1 ELIGHT 2 EANT ER HEIGHT 3 EANT ER HEIGHT 2 EANT ER HEIGHT 2 EANT ER HEIGHT 2 EANT ER HEIGHT 2 EANT ER HEIGHT 3 EANT ER HEIGHT 3 EANT ER HEIGHT 3 EANT ER HEIGHT 3 EANT ER EL THE SEED
TABLE	VARIETY OR CROSS	CCLUMBUS WILLIAMS BONUS TRACY FCRREST CALLAN WOCDWORTH BOSSIER CLARK 63 ARD ERROR OF A COEFFICIENT VARIETY MEANS (C C C C C C C C FILE FILE FILE FILE FILE FILE FILE FILE
	ENTER I	9 6 9 9 9 1 S I S I S I S I S I S I S I S I S I S

YEAR 1975	
641	
EXPERIMENT	
170	
TABLE	

	CSE				
	MIN.	1976			
COUNTRY - TAHITI ELEVATION - 2 M	LONGITUDE - 149 DEG. 30 MIN.	DATE HARVESTED - MARCH, 1976	%, PH 7.3	0	
		1975	30%, CLAY 31	10.0, K 60.	
REGION - OCEANIA SITF - PAPPETE	LATITUDE - 17 DEG. 30 MIN. S	DATE PLANTED - DECEMBER 3,	SOIL TYPE - SAND 29%, SILT 30%, CLAY 31%, PH 7.3	FPRTILTZER USED (KG/HA) - P 10.0, K 60.0	AMOUNT OF MOISTURE - 537 MM

LODGING	0000	1.00	1.30	1,00	1,30	1.00	1.00	1.00	1.00	1.00	7.00	*00.0	0.00		0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 1
PLANT	70.38 58.79 47.77	43.83	40,25	73.73	64.95	45.96	0°09	51.78	95.58	60.55	2.20	7.27%	6.31		-0.26	0.08++	0.20	0.46++	0.51++	0.55++	0.53++	1.00	00.0	0.04	-0.22	0.32+	0.37++	0.34+	0.00	00.00	00.00
NODULE EIGHT 2	6.17 3.08 4.95	4.03	3.28	6,20 9,20	10,00	5.23	4.32	4.85	11.95	5.72	66.0	34.43%	2.83	1)	-0.24	0.74++	0.43++	0.63++	0.80++	0.73++	1.00	0.53++	00.0	0.01	-0.43++	++ 11 10	0.31+	0.02	0.00	0.00	00.00
NODULE EIGHT 1 WI	3.15	2.10	1.95	2°33	6,00	2, 18	2.08	1,55	6.98	2.84	44.0	31,31%	1.27	- PROB=.0	-0.30+	0.86++	0.59++	0.89++	0.87++	1.00	0.73++	0.55++	00.0	60.0-	++910-0-	0.60++	0.34+	-0.03	00.0	0.00	00.00
NODULE UMBER 2 W	728.25 511.25 620.25	2,2	7.5	585.00		0.7	2.2	5.5	1942.50	772.06		26.47%		.05 ++	-0.28+	0.86++															00.00
NODULE UMBER 1 N	636.75 252.50 360.50	422.50					_	_	1040.00	487.15	94.29	38.71%	270.44	(+ - PROB=	-0.26	4+97.0	0.52++	1.00	0.82++	0.89++	0.63++	++94.0	00.0	-0.07	-0.38++	0.55++	0.24	-0.05	0.00	00.0	00.0
DAYS TO ATURITY N	111.25	117.50	131,00	92.03	131,00	108.50	92.00	92.00	146.00	113.02	3, 12	5.53	8,96		-0.22	0.61++	1.00	0.52++	0.68++	0.59++	0.43++	0.20	00.00	-0.16	-0.22	0.29+	0.48++	60.0	0.00	00.0	00.00
DAYS TO FLOWER M	33.00	33,00	33.00	33,00	45,25	33,00	33,00	33.00	61.00	9	64.0	9	m	TIONS	-0.34+	1.00	0.61++	0.76++	0.86++	0.86++	0.74++	0.68++	00.00	90.0-	-0.45++	0.57++	0.30+	-0.06	00.0	00.0	00.0
YIELD KG/HA	4902.02 4522.57 4468.27	4413.63	3376.51	2980.05	2627,82	2494.62	2487.37	2012.57	1445.08	31.6	483.89	29.9	7.9	RRELA	1.00	-0.34+	-0.22	-0.26	-0.28+	-0.30+	-0.24	-0.26	00.0	-0.03	0.67++	0.03	-0.23	-0.05	00.00	00.0	00.00
VARIETY OR CROSS	DAVIS PORREST ROSSTED		D PFLICAN	3,56.3	HARDEF		AMS	MOODWORTH		GRAND MEAN		COEFFICIENT OF VARIATION	VARIETY MEANS (********NS)	0 ט	YIELD KG/HA	0				NODULE WEIGHT 1	NODULE WEIGHT 2	PLANT HEIGHT	LODGING	SHATTER	PLANTS HARVEST	PODS PER PLANT	THOISEED WEIGHT	QUALITY OF SEED	DISEASE	DISEASE	DISEASE III
FNTRY	v co r	<u> </u>	2 27	6.0	۰. ۳		11	40	gran.		STANI		5% ISD																		

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		- PROB = . 01
QUALITY OF SEED	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	055 
OO SRED Q WRIGHT O	222.92.92.23.94.02.23.94.03.33.94.03.33.94.03.33.94.03.33.94.03.33.94.03.33.99.98.03.99.98.03.99.98.03.99.98.03.99.99.99.99.99.99.99.99.99.99.99.99.99	(+ - PROB== -0.23 0.48++ 0.32++ 0.31++ 0.31++ 0.37++ -0.01 -0.01 -0.01 0.32+ 0.32+ 0.00 0.00
PODS PER 10 PLANT	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	00.000000000000000000000000000000000000
PLANTS	180.00 148.25 191.00 150.50 156.75 126.75 128.25 69.25 69.25 136.94 111.04	T I O O O O O O O O O O O O O O O O O O
SHATTER H	**************************************	R E C C C C C C C C C C C C C C C C C C
	NND M PAN STT M PAN REATION ****=NS) *	KG/HA PLOWER ATURITY OWBER 1 UMBER 1 UMBER 2 PRIGHT 2 HRIGHT 1 LODGING SHATTER HRIGHT PLANT WRIGHT OP SEPD III
VARIETY OR CROSS	DAVIS FORRES BOSSIER SEMMES CALLAND IMPROVED PELICAN COLTMBUS HAMPTON 266A HARDET TRACY WILLIAMS WOODWORTH JUPITER GRAI STANDARD ERROR OF A VARIET COEFFICIENT OF A VARIET LSD VARIETY MEANS (*******	TIELD DAYS TO M NODULE N NODULE N NODULE W NODUL
ENTPY	5 12 12 17 17 17 17 17 17 17 17 17 17 17 17 17	
		- 319 -

YEAR 1975

EXPERIMENT 641

EAR 1975
3 YE
RIMENT 63
EXPER
171
BLE

COUNTRY - ARCENTINA ELEVATION - 111 M LONGITUDE - 60 DEG. 31 MIN. W

DATE HARVESTED - APRIL, 1976

REGION - SOUTH AMERICA

SITE - PARANA
LATITUDE - 31 DEG. 50 MIN. S
COOPERATOR - MARGARITA A. DE TRONCOSO
DATE PLANTED - JANUARY 12, 1976
AMOUNT OF MOISTURE - 479 MM

LODGING	3.25 1.50 1.00	22.000	1.82 0.21 22.90% 0.60	0.00 0.03 0.03 0.03 0.03 0.03 0.03 0.03
PLANT	65.00 62.50 63.75 50.00	61.25 55.50 48.75 46.25 46.25 47.50 50.00	52.95 2.32 8.75% 6.63	0.76++ 0.59++ 0.38++ 0.13 0.13 0.31+ 0.31+ 0.31+ 0.00 0.00 0.30+ 0.31+ 0.21+ 0.21+ 0.22+ 0.00
NODULE WEIGHT 2		0.52 0.52 0.66 0.73 0.73 0.58 0.64	0.71 0.23 64.06% ************************************	0.24 0.34+ 0.35+ 0.53+ 1.00 1.00 0.00 0.17 0.00 0.01 0.00 0.01 0.00 0.00
NODULE WEIGHT 1	0.29	8 m t m m m m m m m m m m m m m m m m m	0.45 0.11 48.68% 0.31 + - PROB=.	-0.00 -0.00
NODULE NUMBER 2	9-100	218.50 168.75 168.50 136.50 173.75 108.50 76.75 172.25 116.50 66.25	147.38 29.11 39.50% 83.26	0.42++ 0.34++ 0.42++ 0.43++ 0.69+ 0.45++ 0.03++ 0.03++ 0.03++ 0.00
NODULE UMBER 1	133.00 78.50 63.25 104.25	77.50 112.75 49.25 99.25 88.50 78.50 79.00	83.63 14.58 34.87% 41.71 (+ - PROB=	0.13 0.26 0.19 1.00 0.19 0.21 0.01 0.00 0.00 0.00 0.00 0.00 0.00
DAYS TO	101.00 93.25 93.50 82.50	91,25 91,25 91,25 91,75 91,00 91,00 66,50	88.45 1.76 3.98% 5.04	0.41++ 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1
AYS TO FLOWER M	29.00 29.00 19.50	16.00 16.00 16.00 16.00 16.00 16.00 16.00	18.54 0.13 1.44% 0.38 T I O N S	0.75++ 1.00 0.37++ 0.34++ 0.24++ 0.59++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0
YIELD I	2422.24 2245.17 2027.76 1963.50	1838.55 1574.37 1545.81 1501.18 1294.12 1278.06 1253.07	1608.00 81.55 10.14% 233.28 0 R R E L A	1.00 0.41++ 0.41++ 0.13+- 0.02 0.76++ 0.76++ 0.76++ 0.00 0.10 0.11+ 0.38++ -0.38++ 0.00
0 0 1 1 5 1 0 0 0			GRAND MEAN VARIETY MEAN OF VARIATION (********C C	KG/HA  PLOWER  RO MATURITY  RE NUMBER 1  RE NUMBER 2  LE WEIGHT 1  LE WEIGHT 1  LODGING  SHATTER  RY  RY  RY  RY  RY  RY  RY  RY  RY
VARIFIT OR CROSS	PORREST COLUMBUS CALLAND WILLIAMS	BONUS AMSOY 71 BERSON HARK WELLS HOODSON WOODWORTH CORSOY ALTONA	STANDARD ERROR OF A VA COEPPICIENT OP 5% LSD VARIETY MEANS (**	YIELD DAYS TO DAYS TO DAYS TO NODULE NODULE NODULE PLANTS PODS PER 100 SPER 100 SPER DISEASE DISEASE DISEASE
ENTRY	e 113 121	114833752	STANDAR 5% LSD VA	

1975
YEAR
633
EXPERIMENT
TABLE 171

PERCENT 20.6 19.9 20.2 20.2 20.3 19.7 19.7 21.3 19.7 21.3 19.7 21.3 19.7 21.3 19.7 21.3	000000000000000000000000000000000000000
PERCENT PP 39.8 43.5 43.5 47.3 47.3 47.3 41.4 44.4 44.4 44.4 44.4 44.4 44.4 44.4 44.4 44.4 44.4 43.2 43.2	-0.49++ -0.16 -0.49++ -0.16 -0.39++ -0.24++ -0.24++ -0.43++ -0.43++ -0.43++ -0.43++ -0.43++ -0.43++ -0.43++ -0.60++ -0
2.00 1.75 2.00 1.75 2.50 2.50 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3	-0.56++ -0.53++ -0.06 -0.10 -0.07 -0.27+ -0.12 -0.12 -0.19 -0.19 -0.19 -0.19 -0.19
WEIGHT OF SEED	-0.19 -0.59 -0.03 -0.03 -0.03 -0.14 -0.14 -0.00 -0.00 -0.40 -0.60 -0.60 -0.60 -0.60 -0.60
PODS PER 10 PLANT 28-72 27-60 27-60 17-38 17-55 16-60 23-78 19-63 19-63 19-63 23-25 23-25 23-68 23-05% S	0.35++ 0.61++ 0.15 0.25 0.25 0.03 0.03 0.03 0.00 0.00 0.00 0.00 0.0
HARVEST 184.25 184.25 168.00 162.25 217.25 2217.25 220.25 220.25 220.25 207.75 180.50 180.50 180.50 180.50 180.50 180.50 174.75 11.72 11.72 11.72 11.72 11.72	0.11 0.34 0.394 0.394 0.13 0.13 0.00 1.00 0.13 0.00 0.14 0.14 0.14 0.14 0.14
R R R R L C C C C C C C C C C C C C C C	000000000000000000000000000000000000000
MEAN MEAN TION = NS)	KG/HA PLOWFR MATURITY NUMBER 1 NUMBER 2 MEIGHT 1 MEIGHT 2 HEIGHT 2 HEIGHT 2 HEIGHT 0 MEIGHT 0 MEIGHT 0 MEIGHT 1
VARIETY OR CRCSS PORREST COLUMBUS CALLIANS WILLIANS BONUS AMSOY 71 BERSON HARK WFILS HODGSON WOODWORTH CORSOY ALTONA SWIPT  RD ERROR OF A VARIA SWIPT COEFFICIENT OF VARIA ARIETY MEANS (********	PIELD DAYS TO ENDAYS TO MODULE WINDOULE
ENTEY 10 11 12 14 44 44 11 5 5 5 18 19 10 11 11 5 11 5 12 13 14 14 15 16 17 18 18 18 18 18 18 18 18 18 18	

		KG/HA	FLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	HEIGHT	ICLGING
v	F VV	0.1	5,5	6.7	0	0	0	0	.5	1.00
12	MOODWORTH	0	1.7	3.5	0.		0	0.	0.2	1.00
7	DAVIS	3411.93	40.50	107.25	00.00	00.00	00.0	00.0	53.75	1.00
10	COLUMBUS	2	4.2	4.0	0	0.	0.	C	8.5	1.00
(T)	WILLIAMS	0	3,2	8.5	0.	0	0.	0.	7.5	1.00
] [	CLARK 63		2.5	0.7	0.	0	0.	0.	3.0	1.00
10	CALLANE	~	5.0	5.7		0.	C	0.	T . +	1.00
	BOSSIER	700	5.0	8.7	0.	0	0.	0.	1.7	1.00
-	JUPITER	gom	1.0	1.5	0.	0.	0.	0	3.7	1.0)
· w	TRACY	(7)	4.0	2.0	0,	0.	0	0	0.0	1.00
E*:	HARDER	-	3.0	3.2	0	0	0.	0	5 . 2	1.00
ш		- 00	4.7	6.0	0		C	C	9.0	1.00
) ()	HAMPLON OFFER		5.0	0.7		0	0	0	5.0	1.00
1 77	T D T	· (%)	0.5	4.5			0	6	1.2	3,00
r u t	4 4 4 4 4 4	. ~	100	. T.	0	0	0	0	1.7	00°h
	P T T T T T T T T T T T T T T T T T T T	9	0	) n )	•	,	2			
	GRAND MEAN	55.2	40.47	2			0.	0.	59.07	(La.)
STANDA		188,25	3.42	0.89	0.00	00.00	00.00	00	2,13	0
	COEFFICIENT OF VARIATION	2.7	2.06%	9	0.0	0	0.	0.0	7.20%	0
EN ISI V	VARIETY MEANS (******=NS)	2	-	5			0	0	6.07	0
	S	ORBELA	TICN	ß	(+ - PRO	E=. 0 5	++ - FECB=	.01)		
	V 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		L.	07 0-	C		C		-0.11	-0.65+
	į2		2 0	0.89		. (	0		0.63++	
	MATHRIT	++67.0-	+68	1,00	0.0	00.00	00.00	00.00	0.35++	0
	I I	000	00	0	0		0	0	00.00	0
				), ))				9	0.00	00.0
	WEIGHT		0	00.0	0		0.		00.00	0
	NCDULE WEIGHT 2		0	۹.	0.0		C.	- 10	00.00	0
	HEIGH	-	€3+	C. 35	0.0		0.		1.00	+240
	ICDGING	10	4 17 7	. 56	0.0		0.	9	nde.	0
	SHATTER	-0.07	2	-0.03	0.0		.0		-0.43+	N
	PLANTS HARVEST	$\sim$	2	,36	0.0 +		0.	9	0.09	N
	POLS PER PLANT	- major	79	0.70	0.		0		+64.0	1
	100 SIED WEIGHT	0.28+	+ 175	-0.34	0		0		-0.32+	-0.52+
	CARC AC PERSON		4 0	0			C		+010	0.73+

COUNTRY - BOLIVIA ELEVATION - 389 M LONGITUDE - 63 DEG. 1 MIN. W

YEAR 1975

EXPERIMENT 450

TABLE 172

DATE HARVESTEL - MARCH, 1976

REGICN - SOUTH AMERICA
SITE - AEAPO-IZOZOG
IATITUDE - 18 DEG. 39 MIN. S
CCOPERATOR - JUAN BEILOTT MONTALVC
DATE PLANTED - NOVEMBER 27, 1975
SCIL TYPE - SILT, PH 6.9
AMOUNT OF MOISTURE - 507 MM
NUMBER OF IRRIGATIONS - 2
LCCAL VARIETY - PELICANO

(CONT)
1975
YEAR
450
EXPERIMENT
172
TAFLE

DUTITIES    NEW	0,00000000000
100 SEED 16.25 17.70 17.83 20.13 17.83 17.83 17.83 17.50 17.50 17.50 17.25 17.25 17.25 17.25 17.25 17.45 17.61 17.61 17.61 17.61 17.61 17.61 17.61 17.61	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
PODS L PER 13 15 17 17 17 17 17 17 17 17 17 17 17 17 17	47.000000000000000000000000000000000000
HARVEST TANTS TO THE STANTS TO	0,0000000000000000000000000000000000000
CHATTER 1.000 1.1000 1.	
ICAN GRAND MEAN VARIETY MEAN OF VARIATION ************************************	KG/HA TEOWER 1 UMBER 1 UMBER 1 EIGHT 2 EIGHT 3 EIGHT 4 EIGHT 3 EIGHT 4
ARIETY A CROSS CROSS ORREST AVIS AVIS AVIS ILLIAMS ILLIAMS ILLIAMS ILLIAMS OLUMBUS ILLIAMS OLUMBUS OLU	YIELD AAYS TO AAYS TO NCDULE NCDULE NCDULE PLANT PLANT ES PER O SEED
ENTER 17 12 12 14 17 13 11 11 11 11 11 11 11 11 11 11 11 11	

	REGICN - SOUTH A SITE - PALOMETEL IATITUDE - TY CCOEESATOE - VID DATE PLANIEE - D SCIL TYPE - SAND AROUNT OF MOISTU	MERICA LAS G. 20 MIN. AI VELASCG ECEMBER 30, ES - 411 MM	S RIVAS 1975	COUNTRY ELEVATIC LONGITUD DATE HAR	- BOLIVIA N - 260 M E - 63 DEG VESTEL - A	. 25 MIN. W				
ENTEY	VARIETY OR CROSS	YIELD KG/HA	LAYS TC FLOWER	DAYS TO	NODULE NUMBER 1	NCDULE NUMBER 2 W	NODULE EIGHT 1	NODUIE WFIGHT 2	PIANT	TOEGING
14	CALLAND	213,3	3.2	96.2	58.7	07.2	ω (	En L	0.2	0
07 [7	FCRREST HAMPTON 266A	961.2 896.7	0.0		3.2	66.0	n m	9 9	0 0	1000
to to	DAVIS HARDER	855.1 852.3	3.2	23.0	85.5 78.7	13.2	<b>m</b> 2	200	7.5	0
10	COLUMBUS	788.2	2 . 5	97.2	75.5	000 000 000	0 0	B. C	2.7	0
u , =	COBB TMPROVED PETICAN	354°B	3 · 2 2 · 1	У. Г.	7.8-	C4.7	- &	0 0	o m Unio	0 0
- 43	MMES	265.2	5.7	21.7	1.) 5	495.7		C)	2.0	0
w •	FACY	128.5	5.7	98.5	54.5	36.5	F .		4.2	0 0
	CIABK 63	74.3	2 . 2	93,5	19.7	301.2	* *		6.2	0
	SIER	833.9	6.2	4.5	28.2	61.2	0	m •	6.5	0
E C Z	WILLIAMS	2565.10 2558.84	34.00	2.0	32	266.50 261.75	01.1	4,15	7.5	.0.
	GRAND MEAN	61.9	9		6.7	60.9	ω,	0,	U)	6
STAND	VARILTY	237.47	• 26	0.61	61.66	4.60	0.23	0.68	2.58	.00
131 63	COEFFICIENT OF VARIATION VARIETY MEANS (*******=NS)	12.27 g	1.40%	1.08%	54.38%	51.56%	33.50%	27.62%	7.36	00.00%
	O	ORBEL	ATICN	ท	(+ - PROE	++ 50 €	- FECB=.	01)		
	YIFLE KG/HA	ି	0	.2	0	<u>-</u>	0	0.01		·-
	EL E	~	. 53	0,5	7.0	. 7	. 7	• 65		
	0 1	7 0	477.	0.0	70	+ 17 L "	. 61+	.57+	. 29	- (7) 4 -
	NODULE NUMBER 2	0.13	3,75+	+ 0.41++	9.74+	1.00	0.77++	9.71++	0.51++	0.55++
	NODULE WEIGHT 1	0,0	, 76+ 65+	0 0	0,0		.00	.61+	. 53	9.7
	PLANT HEIGHT		+ 69 *	0.05	0.29+	51+	* *	389	.00.	88
		-	. 8 1+	0.1	0.3	0.55+	+09.0	+ 77 0	-	0.
	6	),	- (	2.0	٣,	2.	2.0	-0.15	0.42	2 <
	Z //	٠, ٣	್ಲಿ	20	0 0	2.0	0.0		9 (	
	4 (2)	900	2 6	 }	, ,	0.1	) 2	- ). 23	0.48	17.
	ALIIY CF	m	0	. 2	Γ,	-	0		34	77 .

	PERCENT	22.00 22.00 22.00 22.00 22.00 22.00 24.00 25.00	
	PERCENT	4 4 4 4 1 1 . 5 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6	
EC)	QUALITY OF SEED	3.1) 2.75 2.25 3.50 3.50 3.50 2.25 2.25 2.25 2.25 2.25 2.25 2.25 2	0.35++ 0.26+ 0.22 -0.19 -0.19 -0.25 -0.25 -0.34+ -0.44+ 0.06 -0.66+ 1.00
(CCNTINDED)	100 SEED	19.13 16.75 22.08 18.10 19.43 19.40 17.00 17.00 17.00 17.00 17.00 18.02 18.02 18.02 18.02 18.02 19.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05 10.05	0.39+ -0.19 -0.13 -0.13 -0.21 -0.21 -0.24
YEAR 1975	PODS PER 1	32.)) 42.75 26.75 34.0) 47.00 34.00 26.25 27.25 34.00 28.70 34.00 28.70 31.90 31.90 7.66 7.66	0.30+ 0.24+ 0.24+ 0.19+ 0.38++ -0.47+ -0.47++ -0.47++
	PLANTS P HARVEST	P.4 1	00.10 00.10 00.18 00.18 00.15 00.15 00.15 00.17 00.21 00.21
EXPERIENT 447	SHATTER	1.000 1.000	-0.06 -0.11 -0.25 -0.25 -0.22 -0.42 -0.42 -0.42 -0.13 -0.13
TABLE 173 EX	VARIETY OR CROSS	N RAND MEAN VARIATICN *****=NS) E I A T I	YIELD DAYS TC FLOWER DAYS TC MATURITY NCDULE NUMBER 1 NCDULE WEIGHT 2 RLANT HEIGHT 2 RLANT 100GING SHATTER RANTER POLS PER PARYEST 100 SEED WEIGHT 2UALITY OF SEED
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	LODGING 2.75 1.00 1.0	-0.03 0.47++ -0.28+ -0.19 -0.15 -0.34+ -0.34+ -0.31+ -0.34+ -0.44+ 0.00
	PLANT PLANT PLANT 113.75 88.75 60.50 69.50 69.50 69.50 69.50 69.50 74.75 119.75 4.36 111.67 4.36	-0.06 0.66 0.46 0.46 0.33 0.03 0.03 0.03 0.04 0.00 0.00 0.00
	10000LE 10000LE 10000LE 10000LE 10000 1000 1	00000000000000000000000000000000000000
	[ B	00000000000000000000000000000000000000
10 MIN. W BIL, 1975		
BOLIVIA - 320 M - 63 DEG. BSTED - AP	119.50 119.50 119.50 159.50 166.50 216.50 216.50 216.50 161.75 161.75 161.75 186.75 186.75 186.75 172.53 172.53 186.75	22. 22. 23. 24. 25. 26. 26. 26. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27
COUNTRY RLEVATION LONGITUDE DATE HARV	DAYS TO NATURITY N NATURITY N N 112.50 1114.25 1108.00 1110.50 1113.25 108.00 1114.00 1114.00 1117.50 117.5	0.12 0.48 1.00 -0.21 -0.27 0.02 0.46 -0.27 0.46 -0.27 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 0.46 -0.27 -0
5 1974 1974 52 mm) CANO, ACADI	DAYS TO PAYS T	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
TRICA  14 MIN.  FRT ZUFITA  CEMBER 27,  E - 296 MM  IONS - 1 ( IES - PELI	YTELD KG/HA 2656.36 2537.17 2537.17 2237.97 2237.97 2237.11 2237.97 2237.97 2156.26 1952.89 1952.89 1952.89 1952.89 1952.89 1952.89 1952.98 1802.44 1641.95 2183.41 261.43 278.84 278.8	1.00 0.05 0.05 0.05 0.05 0.00 0.00 0.00
UTH AM A CRUZ 17 DEG - HERE D - DE OISTOR VARIET	LICAN GRAND MEAN VARIETY MEAN OF VARIATION (********	KG/HA PLOWER NUMBER 1 NUMBER 1 WEIGHT 2 WEIGHT 2 WEIGHT 2 WEIGHT 0 WEIGHT 1 PLANTER HARVEST WEIGHT III
REGION - SOUT STE - SANTA LATITUDE - 17 CODPERATOR - DATE PLANTED SOIL PH 7.0 AMOUNT OF MOI NUMBER OF IPE	TRY  OR CROSS  HAMPTON 266A  DAVIS  ACADIAN  COBB  TRACT  PORREST  WILLIAMS  BOSSIER  HOODGORTH  HARDEE  CLARK 63  COLUMBUS  PRILCANO  IMPROVED PELICAN  IMP	TIELD DAYS TO DAYS TO NODULE NODULE NODULE PLANT PLANTS PODS PER 100 SEED QUALITED SEED DISEASE DISEASE
	ENTRY 15 17 17 18 88 88 13 14 4 4 5x LSD v	

NOMBREE	25025 20	011 11 11 11 11 11 11 11 11 11 11 11 11	UADVROT	TM K IC	WETCHT	OF SEFD	PROTEIN	OIL	
	CECUS.	9 •	Mr v E	-	2	7			
1	JUPITER	1.00	103.00	64.05		3.00	42.8	24.1	
2	HAMPTON 266A	1.00	139.25	64.44		2.75	40.9	23.5	
7	DAVIS	1.50	131.50	48.93	2°	3.00	40.5	23.1	
15	ACADIAN	1.00	104.25	66.52		2.00	43.7	22.3	
r.	COBR	1.00	121.00	20.90	3°	1.25	ì	1	
8	TRACY	2.25	121.00	43.08	5	3.00	43.9	20.4	
6	PORREST	1.00	115.00	62.80	0	3.25	42.1	23.0	
13	S. W. H. T. T. T. W.	1.50	107.75	38.43		2.25	42.2	25.3	
9	BOSSIEB	1,00	138,25	46.35	2.	2.75	43.7	23.1	
12	WOODWORTH TO THE TENT OF THE T	2.00	118.50	40.08	- 0	2.75	1	1	
2 m		1.25	94.75	77,30		2.75		22.6	
11	CI SEE AN	1.00	116.25	36.30	4	2.50	3	22.4	
- 0		1.00	153.50	43, 15	C	2.25		- I   I	
111		1,00	95.50	52,05		2.25	44.0	23.4	
7 77	IMPROVED PRIJCAN	1.00	118.75	47.93	2	2.00	43.0	23.1	
	į. Ž	1 23	118.55	7		2.52			
CTANTA	五日	0.13	00000	2000	10	0.25			
100000	OF VARIA	21.	13.50%	10		19.874			
5% LSn V	******	7	22.86	13.93	1.56	0.71			
		CORREL	ATION	رب د	808d - +)	ROB=.05 ++	+ - PROB=.01)	01)	
	YTPI,D RG/HA	,	0.09	0.21	0.34++		0.00	00.00	00.0
		1	-0.31+	0.42++		1	00 00	00.00	0.0
				0.29+		7	00.00	00.00	0 .
	II. F		60.0	0.04		I	00.00	00.00	0.0
	NODILE NUMBER 2		0	0		,	00.00	00.00	C * C
			0.1	-0.06	0.14	1	00.0	00.0	0 0
		0.11	60.0-	0.75	1.24+		00.00	00.00	0.0
			0	0.14	0.08	'	00°0	00.00	0.0
		1	-0.31	0.26+	0.10	1	00.00	00.00	C . C
	SHATTER		0.10	-0.30+	0.06		00.00	0.00	0.0
	TRANGE HADVEST		1.00	Ö	-0.21	1	0.00	00.00	0.0
	~	'	++64.0-		0.13		00.00	00.00	0.0
	_		-0.21	0,13	1.00		00.00	00.00	0.0
	S. F. C.		0	0.06	0.02		00 00	00.0	ر د د
			00.00	00.00	00.0		1.00	00.0	0.0
	DISTACE		00 0	00.00	00.00		00.0	1.00	00 0
							000		~

YFAR 1975

EXPERIMENT 133

YEAR 1975	
EXPERIMENT 448	
TABLE 175	

1	CCCG	-	g 1	, · ·		_	-	-	-	-	_	,	- 1	_ '	-	- Arram	0	16	0		0 -	0 (	0 0		1	) C	> c	,	0	0-	0 0	1	0 1 1
	PLANT HEIGHT			60.50	0 = 0 D ==0	7	9	50	2 °	on :	ċ	÷.	تا ا	i Oz	ŝ	2	8	6.06%	ە. س		. 2	6.0	0.64+		- c	; c		0.65++	0	-	0.1		0 1
	NCDULE WEIGHT 2	0	0	0.00	20		0	0	0	0.	C .	0		0	0			0.30%		.01)	0	ري	0	0	) (	, (	, C	0000	0	0	0	٠.	: 
	NODULE WEIGHT 1	0	0.	000	0,0		0.	0	0.	0.	0.	0.	0	0.	0	0		3.00%	00.	+ - PRCB=	0	Ç	0.	0	0 0	90	° c	00.0	0.	0.	0	0.	0. 1
10 MIN. F	田 7	23.3	53.7	109.50	75.0	71.)	26.0	75.5	S	5	(7	0		0	L.	b . 9	3.9	35, 13%	8 3	÷ 0 € +	0	. 36		• 56			۵	-0.26+					0
BOLIVIA - 320 M 63 DEG. ESTEL - MA	NODULE UMBER 1	83.2	4.0	85.50	1 . 7	51.2	05.0	4.7	61.7	1.0	5),)	0.7	5.0	5 ° 2	6.2	7	. 4	43.36%	. 41	(+ - PROE=	0.35++	- ). 32	0.19	1.00	7.56++	00.00	0.00	-0.28+	00.00	0.21	-0.00	3.32+	-0.01
CCUNTBY - ELEVATION LONGITUDE DATE HARV	DAYS TO MATURITY N	5.)	0 .3	91.00	0 0		0 0	0 0	9.0	9.0	5.0	9.0	9.0	9.0	9.0	6	0 0	×00°0	000.		0	7.	0	. 13	ر ،	0,0	000	0.33++	000	Ξ.	0	2	
CVANDC 1975 .4 11.7 P 35	DAYS TO FLOWER M	1.0	3.0	29.00	)	9 6	9 0	1.0	7.0	0.0	2.3	0.0	0.6	9.6	9.0	9		0.00%	00	TIONS		0	0.7	0	C.	0	0 0	0.57++		0	-	. 5	• 2
MERICA Z Z 14 MIN. S BERT ZURITA ECEMBER 17, Y ICAR, PH 6 (KG/HA) - N RE - N	YIELD KG/HA	3.7	0.7	3994.13	G 0	200	0	2.7	6.)	m	1.8	3.8	4.2	5.7	2.5	я), и	127.1	7.	362.86	CRFELA	0	$\overline{}$	0	35+	58	0	0.0	07.01	0.0	, 60	~	0.54++	5
OUTH A CRU 17 DE - HER ED + D USED USED MCISTU	1 1 1 1 1 1 1 1 1								17							- 45	MTM	TLV	SN++	O		Pr-1	MAB	NON	NU	3	교		SHATTER	3 27			0
REGION - SI SITE - SAN LATIE - SAN COOPERATOR DATE PLANT SOIL TYPE FERTIIZER AMOUNT OF	VARIETY OR CROSS	HAMPTON 266A	1	CALLAND	HARDEE	FORREST	TRACI	COLUMBICS	IMPROVED PELICAN		JUPITER	PELICANO	WILLIAMS	WOCDWORTH	CLARK 63	2	ATTACA C TO GOOD GEARS		-		YILLD	DAYS TC	DAYS TC	NODULE	NODULE	NCDULE	NODULE	PLANT		PLANTS	POLS FER	100 SELE	QUALITY
	FNTEY	I.S	7	14	(*) (	un u	υ c	- u	. 77			# H 1	(1)	12	11		CHANTAD	CIRNERN	SA ISI VA														

PERCENT PERCENT PROTEIN OIL																39.4 27.2																		
QUALITY OF SEED	2.00	200	2.00	100	7.33	3,00	3.00	2.00	3.25	2.30	3.00	2.75	2.00	2.00	3.75	00 * 7	2,58	-	8 3 3	 	B= • 0 1)					-0.23	00.0	0.33	-0.32+	-0.27+	00.00	0.01	-0.37++	+0°0-
00 SEED WEIGHT	9	16.50		) (	2 . 2	.5	.5	0	2	7.	2	.5	. 5			14.75	16.32	. ~	4.10%	96°	++ - PRO	0.54++	-).52++	-0.27+	1,32+	++940	00.00	0.39	-0.62++	-1.49++	00.0			1,00
PODS PER 1	2.0		· (c)	) :	1.	7.6	0.7	6.4	8.8	4.6	2.8	2.2	5.5	7.1	5.2	36,18	37,58	7, 5	13,35%	16	PROB=.05	0.14	3,16	0.02	-0.33	0.10	00.00	0000	0.16	0.25	00 00	-7.47++	1.00	-0.22
PLANTS E	-	221-00		o r	~	1/3	10	173.50		Ph-	0.1	Pro-	1.61	(3	1 10%	153,25	174. 28	11 11	13.26%	32,98	+)	0.39++	- ), 36	0.17	0.21	0.23	00.00	0.03	-0.17	-3.21	00.00	1.33	-0.47++	0.27+
SHATTER	100	00.1	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	1,00	1.30	1.00	0.00	00.00	0.00%	00.00	S N 0	0, 00	0,00	00.00	0.00	00.0	00.00	0.00	00.00	3.13	1.00	0.33	00.00	00.00
																	11日本	THE WHEN		(SN=******	ELATI	KGZHA	FLOWER	AIU	CME	O KB	WEIGHT 1	EIG	77	LCDGING	SHATTER	A	PIANT	ENGINE.
VARIETY OF CROSS	изметом обба	DAUTS	O Part S N P	CALLAND	HARCEE	FORREST	TRACY	CCLUMBUS	COEB	IMPROVEL PELICAN		JUPITER	PFTTCANO	O W R I I I I I	HENCHICK	CLARK 63	2	THE A DE TORDE A VARIA	CTENT OF	NS (	CCRR	YIEID	DAYS TO		NCDULE		NODULE		PLANT			EX	POLS PER	E E S
ENTER		V 17	1 7	<b>3</b> (	(*)	5	ω	10	ш	7	Ę	-	1 .	) (*	10	11		C 7 8 K. T.	4	131 Kg														

YEAR 1975 EXPERIMENT 624 TABLE

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RCCULE PLANT PIANTS PODS PER 100 SEED 20ALITY

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56.66 4.17 14.72% 11.90

- PRCB=,01)

- PROE=, 05

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84.67 62.75 106.95 106.08 30.13 70.82 70.82 65.52 32.60 41.55 41.55 41.55 25.48 25.48

ICEGING

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PERCENT OIL	25.3	25.5	25.6	24.1	22.8	23.1	22.7	25.2	26.1	23.8	20.4	22.8	27.6	23.4	25.3																	
PERCENT P	43.6	43.4	43.9	45.7	45.1	46.1	46.3	44.2	43.2	44.1	49.4	45.9	40.0	48.1	41.6																	
UALITY F SFEE	1.00	3.00	3.25	1.00	3,25	2.50	3.00	3.75	3,75	2.50	1.50	3.00	3.1)	3,25	3.00	2.72	0.28	2),45%	0.79	3=.01)	++05.0-	-0.50++	-0.41++	-0.19	- 0 = 31+	-0.05	(1	++ 49 * 0-	-0.53++		0.5	++55.0-
O CHEST O	10	0	10	-	100	2	CD	23.23	200	mile	4.3	m	4° 9	19.38	-	19,51	0.34	3.49%	(D)	++ - PROB	0.31+	-3.52++	-0.20	-0.08	-0.13	0.13	3.71	-0.47++	-3.62++	00.00	0.20	- 1.58++
OUS PER 10	56.52	36,15	35, )3	59.60	31.53	38.20	39.40	47.23	32,92	34.65	187.80	29.22	50.65	28,35	49.77	50.	* 17	17.	12.	ROB=.05	-0.06	J. 94++	++69°0	0.37++	0.33+	0.10	0.14	0.71++	3.93++	00.00	-0.37++	000-
PLANIS P HARVEST	7	S	2 .	0	5	וט	2	116.33	7.	5	7.	7.	2		7.	146,13	13, 23	18.11%	37.76	d - +)	0.54++	-).18	-0.03	0.17	0.07	0.17	0.14	-0.01	-0.20	0.00	1.00	-0.3/++
SHATIER	_	0	0	0	0	0	0	0.00	0	0	$\Box$	0	0	0	0	_	0	0.00%	0	C N	0	0	0	0	0	0	0	0		0	0.00	$\overline{}$
																2.,	ď.,		11	EIATI	KG/HA	PLOWER	MATURITY	NUMBER 1	NUMBER 2	WEIGHT 1	WEIGHT 2	EFIGHT.	TCDGING	SHATIFR	HARVEST	FLAN'I
VARIETY OF CROSS	JUPITER	WILLIAMS	HARDEE	IMPROVED PELICAN		COLUMBUS	DAVIS	CLARK 63	HAMPTON 266A	FCRREST	ORIENT	TRACY	WCCDWORTH	CSSIER	CCBB	25	ANIAED ERROR OF A VARI	COEFFICIENT OF VAFIA	NS (	CCRR	ELD	YS TO	YS TC	CDULL	NCDULE	CDULE	CDULE	PLANT			PLANTS	ᆈ
ENTEY	<del></del>	13	{''}	7	100	10	-	11	2	O1	14	Ψ	12	9	ш		STANES		V 181 78													

		LCEGING	20	1.75	וטו	. 2	500	10	0 0	0	0 7	47.25%		m c	0	0	0,0	-0.05	90	0	- 0	. 0	0.0		0
		PLANT	7.5	121.25	0	6.2	1.2	6.2	3.7		ب ب				9 0			-0.13	9 (						
		NODULE WEIGHT 2	. 2	0.45		2.0	4.	. 9	8	. 2	. 1	<b>8</b> 05°48	01)	.2		0	80 0	000	- 0	0	2,0	0	0	0	2
	9 7 6	NODULE WEIGHT 1	00	000	0	00	0.0	0	0.0		00	K 000 0	.+ - PROB=.	0	2 0	0.	0,0	00.00	0,0		0.0		9	0	0
	. 30 MIN. EBRUARY, 1	NODULE NUMBER 2	2.0	3 8 2	0.0	1.7	8 5	8.2	3.7	3.2		% * * * * * * * * * * * * * * * * * * *	±.05 +	0.1	7 =	0.0	00	0.85+	m C	0	- 0	20	0	$\circ$	0 1
	CHILE N - 625 M E - 70 DEG VESTED - F	NODULE NUMBER 1	00	0000	0	00	00	0	00		00	× 000	(+ - PROB	0	00	0	0	00.0	00	0	00	$\circ$	0	00	0 1
AR 1975	COUNTRY - ELEVATION LONGITUDI	DAYS TO	7.7	153,25	42.2	3.7	4.5	5.0	7.0	, w	-	5.66%	Ŋ	-	90	. 0		-0.18	50		C -	- 0		0 0	0
32 YE	5 1975 85.0	DAYS TO	2.0	77.25	8.2	7.0	0.0	9.0	1.0	5.2	7.	4.63%	ATION		0 1	00.	0	-0.11						1	
FERIMENT 6.	ELDRES TOBER 14, TOBER 14, E - 22 MM	YIELD KG/BA	019.5	3675.73	436.1	208.9	838°C	442.1	340.0	950.3	98.3	20.28% 871.98	ORREL	0	2 -	0		0.00	.5	.00	4.		0	0,0	0 1
77 EX	JTH AM CATINA 33 DEG 1 - OC SED ( SETUR										GRAND MEAN		O	KG/HA	FLCWER	NUMBER 1	NUMBER 2	WEIGHT 1	HEIGHT	SHATTER	HARVEST	WEIGHT	OF SEED	HE	III
TABLE	REGICN - SOU SITE - 1 PD LATITUDE - 3 CCOPERATOR - LATE PLANTEL FERTILIZER I AMOUNT CF BL	VARIETY OR CFOSS	AMSOY 71	HOODWORTH	CALLAND	WILLIAMS	CORSOY	COLUMBUS	rest;	HODGSCN	2	ICIENT MEANS (			DAYS TO	ILE JEE		NODULE	PLANT		PLANTS	100 SEED	QUALITY	DISEASE	DI CERT
		ENTRY	rv o	000	3 €	11	9 2	<u>s</u> 6	0	7 #	1	COEPE COEPE 5% LSD VARIETY													

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FOLS PERS 19.40 19.40 19.05 23.05 22.05 23.07 24.05 25.92 25.92 25.92 27.48 19.55 28.92 29.00 19.55 21.00 21.00 21.00 22.00 22.00 23.00 23.00 23.00 23.00 24.00 25.00 25.00 25.00 26.00 27.0	000000000000000000000000000000000000000
PLANTS HARVEST 221.75 208.50 212.75 208.50 219.00 219.00 2243.00 243.00 243.00 285 11.82.00 207.85 11.82.00 207.85	**************************************
SH HATTER STATE ST	000000000000000000000000000000000000000
ETY MEAN APIATICN ***= NS)	RG/HA PLOWER MATURITY NUMBER 1
R OR CRCSS AMSOY 71 WELLS WOODWCRTH CALLAND HARK WILLIAMS BEESCN CORSOY BOOUS COLUMEUS ALTONA SWIET HODGSCN COEFFICIPNT CF V SD VARIETY MEANS (****	YIELD DAYS TO DAYS TO DAYS TO NORUE NOBULE NOBULE PLANTS POCS PFR 100 SEED QUESTER
ENTEY BNTRY 10 13 13 13 13 4 4 5% LSD	

	LODGING													2.50			V	0.58		0	0.60					0 4	000		0		9	0 1	0.15	
	PLANT	•	46.03		0	0	2 .							10 28		40.26	7.47	4.19		0, 31+	0.82++	0.09	0.00	00.00	0.00	00 -	0.56+4	-0.16	35	0.27	-0./4+	0.00	0.11	00.00
	NODULE WEIGHT 2	(	0,0	9	0 -	0	0,0	<u>،</u> د	, c	? <	. 0	0	0.	00°0	?	0.	000	£00.0	01)	C	0	0	0	٠ •	0 0	00	0	0	0	0 0	ې د د	, c	00.00	9
92	NODULE WEIGHT 1		0,0	. 0	0.	0.	0.	99		. 0	. 0	0.	0.	0.00	•			* 00°0	+ - PROB=.	0		0.	9	0.0	0.0	9 0		0	0.	0 0	90	, 0	0	C
ANUARY, 19	NODULE NUMBER 2			8 6	9 4					6	9 6	0		00.00	9	0	00.	* 00.0	+ 50°=	0	0	0.	0	0,0	0, 0	20	0	0	0.	0.	0, 9		00.0	
N - 400 M E - 75 DEG VESTED - J	NODULE NUMBER 1		00.00	00	0	0	0	00	0 0	> <		0	0	00.00	0	00.00		* 00°0 0°0	(+ - PROB	C	0	00.00	1.00	00.00	0.00		0	00.00	00.00	00.00	00.00	00.0	00.00	
ELEVATION LONGITUDI DATE HARN	DAYS TO		88.00	90	.5	0.	0.	0,1	` `	م	ຸນຸ	. 10	. 5	102.75		93,38	989	1.84%	೮	0	0.33	1.00	0	0	0.00	. 0	0	-0-	-0.14	0.	000	00.00	0.16	
18, 1975 MM (120 MM) L.109	DAYS TO PLOWER		0.0	7.		. 2	.7	. 2	7.	. 4		. 2	.5	42.75			.27	0.76	ATIONS	0 3344	1,00	٥	0	0 (	0 ;	<b>&gt;</b> C	+09-0	-0.12	0	0.57	0-	° c	0.27+	3
LINA BRDENAS PTEMBER PH 6374 IONS - 2	YIELD KG/HA		0.6	0 0	0 . 4	3.1	9,3	ت د م	7 . 7	היינ	- 3	. 80	8.7	1881.63	2 . 9	37.1	70	12.42%	CRREL		. m		0										0.15	
SITE - ESPINAL TO LATITUDE - 4 DEG. CCOPERATOR - 0. C. DATE PLANTED - SEI SOIL TYPE - SILT, AMOUNT OF MOISTURA NUMBER CF IRRIGAT LOCAL VARIETIES -	0 0 8 6 0 5 8															GRAND MEAN	ETY MEAN	OF VARIATION (********NS)	S	4 th / O A	PLOWER	MATURITY				WEIGHT Z	LODGING	SHATTER	HARVEST	PLANT		OF SEED	II	44
SITE OF SERVING SERVIN	VARIETY OR CROSS		CLARK 63	HANDER HANDER HAND	DAVIS	L.108	L. 109	COLUMBUS	WOODWORTH	JUPITER	FORKENT.	BOSSIER	BAMPTON 266A		COBB	GR	STANDARD ERROR OF A VARII	COEFFICIENT OF VARIATION 5% LSD VARIETY MEANS (*******NS)			DAYS TO					MODULAN	FLANL		PLANTS	PODS PER	100 SEED	OUALITY		100000000000000000000000000000000000000
	ENTRY		11	~ ~	<u>.</u> _	14	15	10	12	- :	מביד מב	2 42	2 2	÷.	ζ		STAND	5% LSD																
	i												77	1																				

**TEAR 1975** 

EXPERIMENT 611

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		5	00.275 00.000 00.000 00.000 00.000 00.000 00.000 00.000 00.0000 00.000 00.000 00.000
		- PROB=.01)	-0.36 ++
QUALITY OF SEED	000000000000000000000000000000000000000	0.00	000000000000000000000000000000000000000
WEIGHT (	17.53 19.85 19.85 19.63 11.25 11.25 17.25 10.65 17.95 17.95 13.65 22.15	17.68 0.22 2.45% 0.62 (+ - PROB=.	-0.89++ -0.699++ -0.000 0.00 0.00 0.000 -0.74++ -0.26++ -0.39++ -0.39++ -0.412
PODS PER 10	37.23 66.95 32.60 37.85 70.02 61.20 33.80 37.35 46.13 32.40 32.72 34.03 34.03	40.91 4.51 22.03%	0.29+ 0.57+ 0.19 0.00 0.00 0.00 0.00 0.27+ 0.18 -0.38+ 1.00 0.00 0.01 0.01 0.01
PLANTS PO	202.75 90.00 251.00 238.25 193.50 1193.50 207.75 225.75 2217.50 2249.00 250.00	199.80 11.69 11.71% 33.37 T I O N S	0.142++ 0.014 0.000 0.000 0.000 0.35++ 0.35++ 0.000 0.000 0.000 0.000 0.000
SHATTER	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.10 0.14 24.96% ********	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.15 0.18 0.00 0.00 0.00
		EAN ION NS)	KG/HA FLOWER MATURITY NUMBER 1 MUMBER 2 MUMBER 2 MUMBER 2 MUMBER 1
VARIETY OR CROSS	CLARK 63 HARDEE WILLIAMS DAVIS L. 108 L. 108 COLUMBUS WOODWORTH JUPITER PORREST TRACY BOSSIER HAMPTON 266A IMPROVED PELICAN	GRAND M. STANDARD ERROR OF A VARIETY M. COEFFICIENT OF VARIAT LSD VARIETY MEANS (******==	YIELD DAYS TO M NODULE N NODULE N NODULE PLANT PLANT PODS PER OUGSERSE DISEASE
ENTRY	<u> </u>	STAND	

YFAR 1975	
EXPERIMENT 612	
179	
TABLE	

	Lobging	111111111111111111111111111111111111111	*
	PLANT	54,75 31,25 31,25 31,00 31,00 38,25 38,25 46,75 40,00 44,00 44,00 46,00 53,25	## ## ## ## ## ## ## ## ## ## ## ## ##
	NODULE WEIGHT 2		
975	NODULE WEIGHT 1	000000000000000000000000000000000000000	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
. 13 MIN. W	NODULE NUMBER 2	11111,25 745,25 636,25 1093,25 966,00 966,00 751,25 656,75 772,75 772,75 679,00 441,25 642,50	7776 0000-0000000000
COLOMBIA - 339 M - 73 DEG ESTED - D	NODULE UMBER 1	352,25 267,75 261,75 346,50 402,00 402,00 320,75 386,75 438,00 338,25 375,00 259,70 259,75	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
COUNTRY - ELEVATION LONGITUDE DATE HARV 5%, PH 6.2	DAYS TO ATURITY N	103.75 96.25 99.25 100.50 101.00 94.75 96.20 96.25 96.25 96.25	800000000000000000000000000000000000000
1975 0%, CLAY 4	DAYS TO FLOWER M		4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
ERICA 2 MIN. N 2 E. CUJIA PTEMBER 15, 15%, SILT 1	YIELD KG/HA	4000700700	NAMO M DIVENMODEDE MINDOGIO
TLOUTH AND TLONIA TO DEC			GRAND MEAN  TORIETY MEAN  TOF VARIATION  (*********  CC  TIELD  TS TO PLOWER  TS TO MATURITY  DDULE WEIGHT  DDULE WEIGHT  DDULE WEIGHT  DOULE WEIGHT  TODGING  SHATTER  LANTS PARYEST  LANTS PRED  SEED  ALITY OF SEED  SEASE  II
REGION - SOUT SITE - MOTILO LATITUDE - 10 COOPERATOR - DATE PLANTED SOIL TYPE - S	S	JUPITER FURREST DAVIS SEMMES HARDEE WILLIAMS WILLIAMS COLUMBUS CALTAND TRACY BOSSIER CLARK 63	VARI (**** (**** (**** (**** (**** (**** (**** (**** (**** (**** (**** (**** (**** (**** (**** (**** (****) (*** (***) (*** (***) (*** (***) (*** (***) (*** (***) (*** (***) (*** (***) (*** (***) (*** (***) (***) (***) (*** (***) (**) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***) (***)
	VARIETY OR CROSS	JUPITER FORREST DAVIS SEMMES HARDEE WILLIAMS IMPROVED COLUMBUS HAMPTON 26 CAILAND TRACY BOSSIER WOODWORTH CLARK 63	TY KROK TY KROK
	ENTRY	- 6 C T E E 4 C C C E E 6 C C C E E 6 C C C E E 6 C C C E 6 C	STAN LSD

		· + + + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		-0.00 -0.00 -0.00 -0.00 -0.24 -0.00 -0.00 -0.00 -0.00 -0.00
PERCENT OIL	25.6 23.5 23.5 22.4 24.8 25.3 27.1 22.1 22.1 22.1 25.3 25.3	0.23 0.54 0.54 0.54 0.01 0.00 0.00 0.00 0.14 0.18 0.00 0.00 0.00 0.50 0.50 0.50 0.50 0.5
PERCENT	441.2 45.77 45.77 45.77 45.71 45.70 45.70 45.4 45.4 45.4 45.4 45.5 47.7 47.7 47.7	-0.07 -0.07 -0.42++ -0.01 -0.01 -0.01 -0.00 -0.47++ -0.27+ -0.27+ -0.26+ -0.26+ -0.39++
QUALITY OF SEED	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	14,99% 0.052 0.09 0.09 0.09 0.00 0.02 0.02 0.01 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03
00 SEED WEIGHT	17.86 18.53 16.25 19.53 16.25 16.38 16.58 12.95 12.95 17.85 17.85 17.85	3.17% 3.17% 0.81 0.81 0.05 -0.05 -0.12 -0.12 0.00 0.11 0.01 0.05 -0.05 -0.05 -0.05 -0.05
PODS PER 1 PLANT	57.75 83.00 84.50 84.50 84.50 84.75 86.75 86.75 87.75 83.00 83.00 83.75 83	11. 18
PLANTS F	146.25 142.00 149.25 138.25 145.50 143.50 143.50 137.75 140.50 143.25 125.00 125.00 138.00	H
SHATTER	00000000000000000000000000000000000000	11.92%  0.18  0.18  0.18  0.18  0.10  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00
	LICAN A GRAND MEAN VARIETY MEAN	
VARIETY OR CROSS	JUDITER FORREST DAVIS SEMMES HARDEE WILLIAMS IMPROVED PELICAN COLUMBUS HAMPTON 266A CALLAND TRACY BOSSIER WOODWORTH CLARK 63 COBB	
ENTRY	113 133 133 144 112 5 112 5 STANDA	LSD W
		- 337 -

YEAR 1975

EXPERIMENT 612

	LODGING	00.1	0 0	0	0	0.	0.	00	0 0	, <	0 0	, 0	0	0	-	00.0	, 0	00.			0.	0	, 0	, <			0	0	0.	0.	0	0.	0	, (	0000	• 1
	PLANT	24.25	· ~	9 00	0	00	2 .	9 0	n c	0 0	° u	0 4	0 0 - que		0		30.09%	* *			0.33++	0, 19	0.23	*0.01	000	000	1.00	0.00	0.04	0.07	0* 66++	0.17	10		0-10	
	NODULE EIGHT 2	1.62		. m	0	0.	8	9 0	ۍ د	ه د	9 5	` `		6.		2 - 0	٠ . د د	• ¥ 1 ¥ - ¥		01)			8		900		9 5			, 35			0		0°0	• [
76	NODULE REIGHT 1 W	0000	0	0	0	0.	0.	0,0	0, 9	2 0	000	, 0	, 0	.0	(	- 0	, (			+ - PROB=.(	0	0.	0.0		, <	, 0		0	0	0.	0.	0	0.	9	00.00	• !
EBRUARY, 19	NODULE NUMBER 2 W	159.75	7.00	81.7	7.7	84.5	4.5	9.2	2.7	1 . 7	ال ال ال		7 . 7	7.5	L	105.63	2 ° 5	*	,	÷ 05 +	7	٦,	- (	7.	9 0	0	.00	0	. 2	. 34	ع	0.	0,	٠,	0.00	2 1
- COLOMBIA N - 13 M E - 76 DEG	NODULE NUMBER 1	222.00	04.0	52.0	24.7	47.0	60.2	96.5	31.7	040	30.2	7 4 2 7	37.0	. 00	(	166.22	υ o a	%		(+ - PROB	- a	0	0,0	٠ •	٧.	٠ د	2 0		0	. 2	0	0.	0.1	-	0.16	٠ <u>ا</u>
COUNTRY - ELEVATION LONGITUDE DATE HARI	DAYS TO	0	· · a	0.6	4.7	1.0	0.9	8.0	800	0.0	2.5	100	. 0	7.0	(	79.62		* 0 *		so.	-	• 2	0,	0 '	- <	9 0	د	, 0		.2		-	60.	<b>†</b> (	00.0	2
2 P.	DAYS TO PLOWER	29.00		7.0	7.0	7.0	7.0	7.0	7.0	0 %	9.0	000		27.00	(	2.	0,0			ATION	0.21	0	2	0	- 0	90		00.0	0	0.	. 2	0.	0	m .	10.04	
ERICA N EL A. MUNOS VEMBER 18, E - 128 MM	YIELD KG/HA	64.7	84°/	33,00	14.6	84.2	73.4	33.0	30.0	29,2	28.0	0.00	7 0 0 0	315.06			18.5	# # # # # # # # # # # # # # # # # # #		ORREL	0.	. 2	، سم	11.	<u> </u>	000	ع د	00.		9 .	. 48	. 34	. 42	. 2	0.02	٠,
TPANA 9 DEG MIGU ED - NO	1																ETY MEAN	OF VARIATION (*******)		υ	KG/HA	FLOWER	HATURITY		NUMBER 2		MEIGHT Z	TODGING	SHATTER	HARVEST	PLANT	WEIGHT	OF SEED	ы	II;	111
REGION - SC SITE - TURE LATITUDE - COOPERATOR DATE PLANT SOIL PH 6.8	VARIETY OR CROSS	HARDEE	ທິ	0	CLARK 63	WILLIAMS	DAVIS		IMPROVED PELICAN	JUPITER	FORREST	CALLAND	H.J. MOMOOOM	COBB		1		VARIETY MEANS (			YIELD	O.L						FLANT		PLANTS	PODS PER	100 SEED	QUALITY	DISEASE	DISEASE	DISEASE
	BNTRY	e ;	10	7 2	- [-	13	7	9	77	-	6	10	77	o un			STAN	5% ISD																		

YEAR 1975

EXPERIMENT 500

TABLE 180

		000000000000000000000000000000000000000	
PERCENI 01L 25.5 25.1 25.1 24.4 23.9 22.8 22.8 22.7 20.4 20.3	t	0.00 0.16 0.16 0.00 0.00 0.00 0.00 0.00	000000000000000000000000000000000000000
PROTEIN PROTEIN 45.8 44.8 44.8 44.8 44.8 45.0 45.4 45.4 45.4 45.8 45.8 45.8 45.8 45.8	- PROB=.0	00.000 + + + + + + + + + + + + + + + + +	0.00
OUALLITY OUALLITY 2.75 2.75 2.75 2.75 3.00 3.00	2.88 0.32 22.49% *******	00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00	0.00
V SEED 17.25 16.70 16.70 16.25 16.25 16.25 16.38 16.38 14.75	15.74 1.05 13.37 <i>x</i> ****** *	0.34 ++ -0.13 0.05 0.05 0.02 0.02 0.00 0.00	000000000000000000000000000000000000000
PODS PER 10 PLANT 17.90 17.90 17.90 17.90 17.90 17.90 17.90 17.00	14.05 2.88 40.98% 8.23 **	0.48 + + + + + + + + + + + + + + + + + + +	-0.12 -0.07 -0.52 -0.00
PLANTS PLANTS 97.50 97.50 100.50 98.75 98.75 67.50 67.50 67.50 67.50 67.00 68.25 63.25 73.25	75.53 19.59 51.87% *******	0.60 0.21 0.256 0.354 0.00 0.00	00.100
SHATTER 1.50 2.25 2.25 2.25 2.00 2.00 2.00 2.00 2	1.92 0.40 0.40 41.31% *******	00.001	000000000000000000000000000000000000000
	ND BEAN TY MFAN RIAIION ***=NS) *	真印印匠客 电多点	PLANT WEST OF SEED II
VARIETY OR CROSS HARDEE COLUMBUS HAMPTON 266A SEMMES CLARK 63 WILLIAMS DAVIS BOSSIER JUPITER FORREST CALLAND WOODWORTH TRACY	GRA.  COEFFICIENT OF VARIETY  VARIETY MEANS (*****		PODS PER 100 SERO OUALITY DISEASE DISEASE DISEASE
B N M B E R N M B E R 10 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STANDAR 5% LSD VA		

YEAR 1975

EXPERIMENT 500

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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YEAR 1975

EXPERIMENT 328

QNH* MESSHEHO:	HERE SERVICES	00000000000000000000000000000000000000	* 4  600000000000000000000000000000000000	29.53 27.90 16.78 27.90 16.78 27.90 17.13	22	1.75 1.75 1.75 1.75 1.75 1.75 1.75 1.75	TORPORT   1   1   1   1   1   1   1   1   1	19. 7 19. 7 19. 7 19. 6 19. 6 19. 6 20. 8 21. 4 21. 4 21. 4 21. 5 21. 6 21. 7 21. 8 21. 6 21. 6 21. 6 21. 7 21. 8 21. 6 21. 6 21. 6 21. 7 21. 8 21. 6 21. 6 21. 7 21. 8 21. 8 21	င်ပင်ဝင်စိဝိဝိဝိဝိ
PLANTS HA POUS PER 100 SEED W QUALITY OF DISEASE	HATTER ARVEST PLANT WEIGHT F SEED I	0000000	0.00 -0.09 -0.07 -0.07 0.17	- 0.00 - 0.00 - 0.04 - 0.04 - 0.04	0000000	0.00	0 - 4 0 3 0 0		

YEAR 1975

EXPERIMENT 328

RERICA   CCUNTRY - ECUNTRY   ECUTTRY   ECUTRRY   ECUTR
ERICA ELCA ECUNTRY - ECUNTRY - ECUNTRY - ECUNTRY - 5 N
ERICA I.A.P. P. Y 19. P. H 13. P. H 14. P. H 13. P. H 14. P. H 13. P. H 14. P. H 15. P. H 14. P. H 14. P. H 14. P. H 15. P. H 14. P. H 14. P. H 14. P. H 15. P. H 14. P. H 15. P. H 16. P. H 16. P. H 17. P. H 19. P.
ERICA 1. A. P. I. S. 1. 19. P. I. S.

																			₽₽08=.01)	C	0	9	0	0	0	0	0	0	3	0	00.00	C	C +	0		0
OUALITY OF SPED	2.50	1.50	2.75	2.25	1.50	2.50	2.00	3.00	1.75	2.75	2.25	1.50	2.75	3.50	2.32	0.40	34.65%	1,15	= ++ +	. 17	.00	00.	00*	00.	00.	00.	.01	. 10	00°	. 02	00.00	.12	.00	. 34++	00°	00
100 SEED WEIGHT	15,95	19.83	15.93	15.88	17.50	18,30	13,50	19.23	16.60	18.63	16.93	17.45	17.95	19.58	17.50	1.19	13.59%	3.40	(+ - PROP	00.00	00.00	0.00	0.03	00.00	00.00	00.00	-0.12	0.11	00.00	0.12	00.00	1.00	0.12	0.22	00.00	0.00
PODS PER FLANT	00 0	00.00	00.00	00.00	00.00	00.0	00.0	00.00	00.00	00.00	00.0	00-0	00.00	00°0	0.00	0.00	0.00%	00 00	S	00.00	00.00	0.00	00.0	00.00	00.00	00 0	00 00	00.00	00.0	00.00	1.00	00.0	0.00	00.00	00.00	000
PLANTS	194.25	200.00	197.75	190.25	195.75	192.50	180.75	189.50	198.25	187.75	189.25	182.75	195.00	194.50	192.45	0	3.88%		ATIONS	0.36++	00.0	0.00	0.00	00.00	00.00	00.00	0.14	-0.30+	00.00	1.00	00.00	0.12	20.0	-0.02	00.00	00
SHATTER	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			0.00%		ORREL		0				0			0			00.00		0			
									NN						E	VARIETY MEAN	TIO	(sw=*******)	U	KG	FLO	PATUR	NUMBE	NUMBE	WEIGH	WEIGH	NT HEIGHT	LODGING	SHAI	HARV	R PLANT	E E	OF S	נען	E	DX.
VARIETY OR CROSS	BOSSIER	WILLIAMS	HARDEE	JUPITER		HAMPTON 266A	TRACY	COBB	IMPROVED PELICAN	COLUMBUS	WOODWORTH	CLARK 63	CALLAND	AMERICANA		STANDAFD ERROR OF A VA	COEFFICIENT	RIETY MEANS		YIELD	DAYS T	DAYS TO	NODULE	NODULE	NODULE		PLAN			PLANTS	PODS PER	100 SEE	OUALITY	DISEAS	S	DISTRES
ENTRY	9	13	3	-	6	2	80	5	ħ	10	12	11	14	15		STANDA		5% LSD VA																		

YFAR 1975

EXFEFIMENT 331

1075	
VEAR	17 6 7 7
2.50	
TVERTARVA	N T I T I T I V
303	
TRDET	Į

CCUNTRY - ECUADOR
ELEVATION - 73 M

SITE - FICHILINGUE

	LATITU	LATITUDE - 1 DEG.	9		ICNGITUD	E - 79 DE	G. 29 MIN.	33			
	CCOFERATO DATE PLAN' SOIL TYFE AMOUNT OF	CCOFERATOR - I.N. DATE PLANTED - JU SOII TYFE - SAND AMOUNT OF MOISTUR	I.A.P. NE 4, 1975 31%, SILT E - 57 MM	45%, CLAY	DATE HAR 24%, PH 6.	A ESTBD +	SEPTEMBER	1975			
ENTRY	VARIETY OR CROSS		YIELE KG/HA	DAYS TO FLOWER	DAYS TO MATURITY	NUMBER 1	NODOLE NUMBER 2	NCDULE WEIGHT 1	NCDULE WEIGHT 2	PLANT	TODGING
-	ATTION.		140	8		2.0	0	Ţ.,	77.		.2
9	BOSSIER		00	7 .	- 0	2	. 6	0.20	0.85	68,35	2.75
10	COLUMBUS		~	8.0		5.5	1.2	. 2	6.		.5
17	IMPROVED PELICAN	N	00	6.0		3,5	1.7	. 2	9 0		0.
7			Oi	2.0	- 0	4.7	1.7	5	. 2		0
14	CALLAND		-	8.0		8.7	9.0	ή.	-		. 2
2	HAMPICN 266A		0	2.0		3.5	7.0	m	00		. 5
ı			0	2.0		4.5	3.0	77 .	00		. 2
1	CLARK 63		an	8.0		8.2	9.0	77 .	0.		0
m	HARDEE		-9	0.4		6.0	1.7	0	0		0
13	WILLIAMS		V0	8.0		0.7	3.2	- 1	-		0
6	PORREST		00	2.0		2.7	1.2	T 0	10		5
ν α	A DW WE		000	0 0		3.0	7.2	~	0		0
12	WOODWORTH		)	8 0	9 1	5.7	7 - 2	. 2	7		. 2
15	SEMMES		1552, 56	34.00	118.00	24.25	126.50		6.		0
		2 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 5030	0		P	-	C	a	77 70	ر م
				0 '	0 0	/10/7	• † \	د د	0 (	0 4 6 0	000
STANDA		VARIETY MEAN	40.11	00.0	00	7.47	28	0.10	0.22	2.15	0.29
	Е	OF VARIATION		0		2°	-	. 5	52.5	8/5.6	34.01%
5% LSD V	VARIETY MEANS (***	(SN=*******)		0		***	#	m,	*	7. 88	0.82
		O	CRREL	ATION	လ	(+ - PROE	H=.05 +	.+ - PPOB=.	.01)		
	YIELD		1.00	.3	ပံ	Q=== -		03	0	++69 0	.61
	DAYS TO		0.34++	00.	0	_	.05	.35+	- 6	47	9
	DAYS TO		0, 15	9 .		0	97.	. 21	c° s	0.19	9
	NODULE	NUMBE	0.12	-	0	000		8.7	· ·	10°0-	
	NODULE		0.02	• 02	0	6	1.00	0.37+	c° (	-0- 75	
	NODRE	WEIGHT	-0.03	0.35+		32+	0.37+	00		-0-Z1	
	NODULE	[1] [3]	0.3	° 23	<u>ت</u> (	+ 200		0,5		NO	
	PLANT		69.	. 41	0 0	20	0	7 +	8	3 6	
		LODGING	++ 00° C	0.08+	- 0	,	000	00.0	00 0	00.00	00.0
	O FINE IC			) ~					9 4	-0.17	
	CINEST COO		0-70++	י נ	286	0-0-		2	9 6	0.85++	. 9
	100 SPFD		1	20	67	0.2		-	9	-0.11	
	OUALITY	0	-0.02			0.0		0		-0,33++	
	DISEASE		-0.12	. 2		0.2		. 2		37	
	DISEASE	II	00 00	0.		0		0		00.0	00.00
	DISEASE	III	00.00	0.	9	0		0.		0	0
				1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			

	4 1		ELMNIA	4		-	FERCENI	PERCEN!	
NUMBER	OR CROSS	SHATTER	P V F	PLANT	WEIGHT	OF SEED	PROTEIN	OIL	
-	JUPITER	1.00	190.00	45,53	6		42.9	22.1	
9	BOSSIER	1.00	200.00	26.43	3		40.6	22.5	
10	COLUMBUS	1.00	200.00	25.43	$\sim$		42.2	22.5	
Þ	IMPROVED PELICAN	1.00	200.00	36.08	20.10	1.00	42.9	22.5	
7	DAVIS	1.00	198.50	18.98	3	9	40.4	21.9	
14	CALLAND	1.00	200.00	16, 33	$\infty$		41.4	22.0	
2	HAMPICN 266A	1.00	200.00	17.25	-0		39.4	23.2	
5	CORB	1.00	200.00	17.73	15		37.6	24.8	
11	CLARK 63	1.00	200.00	21.20	9		41.4	22.8	
3	HARDEE	1.00	200.00	19.53	9		40.5	23.1	
13	WILLIAMS	1.00	200.00	16,73	0		40.2	23.2	
6	PORREST	1.00	195.25	20.08	0		40.1	22.6	
80	TRACY	1.00	200.00	14.85	0		37.1	22.0	
12	WOODWORTH	1.00	199.00	19,33	5		35.2	24.3	
15	SEMMES	1.00	197.25	13.45	30.10	5.00	14.6	21.3	
	Z II			21,93	ζ,	0.00			
STAN	STANDARD ERROR OF A VARIETY MEAN	00.00	1,9	-	1 -	0.47			
	CIENT OF VARIATIC			15.06%					
5% LSD	SN-******)	.00	. 43	91	かか。	-			
	O	ORREI	ATION	Ś	(+ - PROE	++ 50=:	- PROB=.	01)	
	KG/H		-0.21	C.70++		?		0000	00.00
	FLCWE	9	-0.31+	C. 56 ++	0	V		00.0	0.00
	DAYS TO MATURITY		-0.35++	6.23+	0	0.35++	0.3344	0.00	00.0
	NUMBER	. 0	-0.0-	80.0-	0	0.05		0000	0000
	E NO		-0.04	-0.09		0.23	U. 3 J++	0.00	0.00
	NODULE WEIGHT 1		0.07	-0.29+		0.07	0.28+	00.0	00.00
	ULE WEIGHT		0.08	-0.25+		C.27+	0.32+	00.00	0.00
	T HEIG		-0.17	C. 85++	'	-0.33++	-0.37++	0.00	0000
	LODGI		-0.33++			-0.34+	-1) = 37++	0000	0.00
	SHATIER	0	0.00	00.00		0.0	0.00	00°6	00.0
	HARVE		1.00	-C.4+		-0.03	0.02	00.0	00.00
	PIA		-0-42++	1.00		ं	-0.30++	0.00	0.00
	WEIG		-0.23	- C. 03		7 + + (1) + +	7.56.++	()°(;	0000
	I OF SF		-0.03	-C.31+		1.00	J. 67++	0.00	00 00
			0.02	-C.36++		0.67++	1.00	00.00	00 00
	DISEASE II	0.00	0.00	0.00	00.00	C.0.0	00.00	1.00	00.00
	-		0 0						

(CONFIRURD)

YFAR 1975

EXFERIMENT 330

	PLANT HEIGHT LODGII	64, 55 1, 56, 33 1.	5	1 1	000	35 35 1	98	98	63	18	. 87	13.05% 27.27% 9.30 0.61		31+	26+	22	13	77	00	57++	26+	++ 1/2	-0.10 -0.0	00	00
	NODULE WEIGHT 2	0.69	91	0,	. —	( J		ω		· *	0.73	56.96%	01)	.2	0.0	0.33	7 .	1.00	0.1	- 0	) ° °	.17	0.31+	000	0
975	WEIGHT 1	0.34	N m	m -		~ ^	1 1	m = m	101	~~ C/	0.29	43.38%	++ - PROB=.	0.04	30+	3 y	Sam (	2	22	W <	> ~	0	0.19	- 0	C
. 27 MIN. OVEMBER, 1	NODULE NUMBER 2	42.50	0 6	6	000	9,	- ∞	7 7		ທີ່ສ້	φ.	76.35%	B=.05 +	0.26+	1					0.08	0.31+	-0.00	0.21	00.00	000
PECUADOR  N - 30 M  E - 80 DEG  VESTED - N	NODULE NUMBER 1	30.50	20.00		n +	o a		= ° °		· · ·	27.8	73.15%	(+ - PRO	0.09	0.22	, -	23	+ 0.85++ 0.33++	0.22	0	0.00	0	0.27+	. 0	
COUNTRY - ELEVATION LONGITUDE DATE HARV	DAYS TO	98.00	98.00		50	so c	ണ	9 5	7 0	ထိတ်		2.38% 3.30	S	0.23	0.62++	0-35++	0.02	0,394	05.0	+ 0 46	00.0	94.0 4	0.27+	200	2 6
975	DAYS TO FLOWER	2.0	33.50	. 2 :	. 2	0.0	0	2.0		31.00		0.04 4.28% 1.83	ATION		00		9		9 9	. 45			0-	*0-	
AMBRICA JO GG 4 MIN. S IG. 4 MIN. S AUGUST 22, 1 URE - 319 MM AMBRICANA	YIELD KG/HA	19	3788.05	689	3676.94	306	29	901	94	2791.97	3357.40	268°83 16°01% 768°36	0 88	1,00	10-0-	0.23	0.26+	0.04	0.31+	29	00.00	0 0	0.28+	0.45	200
TOVIE 1 DE 1 DE 1 DE 2 - I - I - I - I - I - I - I - I - I -			N								RAND MEAN	VARIETY MEAN OF VARIATION (********NS)	D	KG /HA		MATURITY NUMBER 1	NUMBER 2	EIGHT	WEIGHT Z HEIGHT	ı.i	SHATTER		DE 1	OF SEED	
REGION - SOUT SITE - PORTON LATITUDE - 1 COOPERATOR - DATE PLANTED SOIL PH 7.0 AMOUNT OF MOI NUMBER OF IRE			PELICA		266A				E		5	ENT OF		VIELD		DAYS TO	NODULE	NODULE	PLANT		S S S S S S S S S S S S S S S S S S S	PODS PER	100 SEED	OUALITY	UISEASE
	VARIETY OR CROSS	COLUMBUS	IMPROVED		HAMPTON	ER	CLARK 63 AMERICANA	BOSSIER	TRACY	FORREST		STANDARD ERROR OF A COEFFICIENT ISD VARIETY MEANS										D.			
	ENTRY	10	<u>.</u> = 1	2	2 ~	, - ;	11	9	12	13		STAND	) 2 3												

NUMBER	VARLEII OR CROSS	SHATTER	HARVEST	PLA NT	WEIGHT	OF SEED	PROTEIN	OIL	
10	COT.UMBUS	1.00	196.50	36, 63	21.98	2.00	43.7	21.5	
14	CALLAND	1.00	177.00	29.15	25.40	00.4	45.I	20.02	
10	TMPROVED PELICAN	1.00	192.50	57.65	16.85	1.00	45.5	6.22	
		1.00	193.75	27.75	20.55	1.25	59.4	72.0	
<b>-</b> u		1,00	199.50	24.03	21.68	2.00	41.5	23.1	
0.0	CODE SECTION SECTION	1.00	190.00	26.28	26, 15	2.00	41.1	23.5	
7	2		160 50	36.15	21.90	2.00	42.1	22.4	
~	HARDER	• •	00000	12 12 12 12 12 12 12 12 12 12 12 12 12 1	24.03	2.75	42.8	22.7	
-	JUPITER	000	170 - 70	200	40.00	2.00	40.2	22.6	
11	CLARK 63	00.1	C/ * F / 1	00°1°	0.00	3 0	202	22.8	
15	AMERICANA	1.00	157.00	47.95	27.08	2 * 00	, (	7 00	
2	#####################################	1.00	120,25	38, 73	21.78	1.50	8.74	4.77	
0 0	T T T T T T T T T T T T T T T T T T T	1.00	200.00	22.40	22.20	1.75	43.6	20.3	
D 0	INACI	000	172.25	30.13	19, 65	1,75	39.2	23.2	
12	MODDWORTH		150 05	34.25	19.53	1.00	38.3	23.2	
σ,	FORREST		154 00	27 75	21.75	1.25	40.7	23.1	
13	WILLIAMS	1.00	00 • 1 € 1	61.13	0 1 * 1 3	1			
	0				21.62				
	NEAN DESTRUCTION OF TO TOTAL TO		11 01		0.79				
STANDA	VARALLI OR HARTA			13.		-			
1	ini "			6.41	2-27	0.47			
5% LSD	5% LSD VARIETY MEANS (TTTTTTTTNS)	*	7	•					
		CORREL	ATION	S.	(+ - PROB	B=.05 ++	- PROB=.01)	.01)	
		(	1000	<	0 284	0.35++	00-0	00.00	00.00
		• 0	1 70 0	2000		1	00.0	00 0	0.00
	TO	° 0	-0-	2 -				00.00	00 00
	DAYS TO MATURITY	0	00.0	+ 0 † ° ∩	17°0 44				0
	NODULE NUMBER 1	00.00	0.25	00.00	0.27+				, ,
	N	00.00	0.31+	-0000	0.21		0000	00.0	
		0	0.18	0.02	0.19		00 00	00.00	0
			0.34+	+	0,31+		00.00	00.00	0 0
	Englan Busic		0.26+	0.74	++ -0.10		00 00	00.00	0°0
	84	, c	0.284	0.59			00.00	00.00	0.00
							00.00	00.00	0.00
		- 0		10	0.13	0.23	00.00	00.00	0.00
	PLANTS HARVEST	0	- 0	000	+02 0-	•	00.00	00.00	0.0
		o ·	-0-	00.1	7000			00.00	0 0
	100 SEED WEIGHT	0	0.13	-0.32+	00 "				
	OUALITY OF SEED	0	0.23	-0.15	0.60+		0000		
	DISEASE	00°00	00.00	00 00	00.00	00.0	000	000	5 6
	TT GOLDONG	0	00.00	00.00	00.00	00.00	0.00	1.00	•

YEAR 1975

EXPERIMENT 329

YEAR 1975
625
EXPERIMENT
185
TABLE

ELEVATION - 10 M

REGION - SOUTH AMERICA SITE - CABASSOU

LATTTUDE - 4 DEG. 54 MIN. N  COOPERATORS - J. LARCHER, P. MIRAS  DATE PLANTED - DECEMBER 12, 1975  SOIL TYPE - SAND 60%, SILT 4%, CLAY 33%, PH 5.5  FERTILIZER USED (KG/HA) - P 60.0, K 60.0  LOCAL VARIETY - VADA	Lobging		
	PLANT	753. CO 51. 75 51. 75 51. 75 50. 25 30. 25 30. 25 31. 50 31. 50 31. 50 31. 50 31. 50 46. 05 2. 13 2. 13 5. 10 6. 10 0. 58 1. 00 0. 00 00 00 00 00 00 00 00 00 00 00 00 00	000000000000000000000000000000000000000
	NODULE EIGHT 2	2.69 2.69 7.99 7.99 2.63 3.04 3.71 3.71 3.80 2.85 3.36 3.80 0.58 3.80 0.58 0.254 0.254 0.254 0.254 0.254 0.254 0.3744 0.00	00000001
	NODULE EIGHT 1 W	0.26 0.18 0.18 0.14 0.28 0.28 0.23 0.23 0.23 0.23 0.23 0.33 0.33 0.33	0411400001
	NODULE UMBER 2 W	452.75 452.75 1164.25 475.75 697.75 697.75 697.75 697.75 631.50 631.08 708.75 236.00 631.08 126.02 39.94% 360.17 0.35 1.00 0.32 0.40 0.32 0.40 0.32 0.40 0.30 0.70 0.30	000000
	NODULE UMBER 1 N	106.75 107.25 91.20 91.20 91.20 91.20 96.25 96.25 96.25 98.50 77.20 73.25 44.25 73.25 44.25 77.00	0 3 3 0 0 0 0 0
	DAYS TO	98.75 98.75 98.75 99.25 101.25 99.00 99.00 99.00 99.00 99.00 99.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	0-100000
	DAYS TO FLOWER R	31.50 34.00 34.00 31.00 31.00 31.75 31.00 31.75 31.00 32.00 32.50 32.50 0.97 0.92% 0.15	100000000
	YIELD KG/HA	3444,86 2730,55 2640,94 2575,10 2578,41 2468,41 2468,41 2157,93 2116,67 1810,36 1712,43 1712,43 1712,43 1712,43 1712,44 13.90% 421,41 13.90% 0.15 0.45 0.45 0.37 0.37 0.37 0.37 0.37 0.37	00000000
	0 0 0 0 0 0 0 0 0	GRAND HEAN GRAND HEAN OF VARIATION OF VARIATION (************************************	SHATTER HARVEST PLANT WEIGHT OF SEED I
	IX SSS		PLANTS PODS PER 100 SEED OUALITY DISEASE DISEASE
	VARIETY OR CROSS	JUPLIER  IMPROVED PER  COLUBBUS  CALLAND  VADA  HAMPTON 266  HILLIAMS  HARDEE  PORREST  TRACY  BOSSIER  WOODWORTH  CLARK 63  COBB  COBF COBB  VARIETY MEANS  WOO  NO  NO  NO  NO  NO  NO  NO  NO  N	
	ENTRY	11777777777777777777777777777777777777	

		000000000000000000000000000000000000000
PERCENT 01L	22.6 20.5 21.2 21.2 21.2 18.7 23.2 23.4 21.9 23.5 23.5 23.5 23.5 23.4	000000000000000000000000000000000000000
PERCENT PROTE IN	4 5.3.8 4 6 6.4 4 6 5.3 4 6 5.3 8 8 6 5.3 4 6 5.3 4 6 5.3 4 6 7.7 4 6 7.7 4 6 7.7 4 7.7 4 7.7 4 7.7 4 7.7 4 7.7 4 8 7.7 4 8 7.7	PROBE
QUALITY OF SEED		
OO SEED WEIGHT	24.45 24.45 23.16 23.16 23.16 23.95 21.56 21.56 21.61 21.61 21.61 21.61 21.61	.54 PROB 121 121 134 148 148 148 148 148 148 148 148 148 14
ODS PER 1 PLANT	25.83 25.68 20.75 20.75 20.75 26.03 26.03 15.68 28.25 29.20 29.20 29.20 26.31 1.92	00000000000000000000000000000000000000
PLANTS P.	142.25 164.75 166.75 132.25 179.00 179.00 149.25 115.25 115.25 92.00 38.00 37.00	H 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
SHATTER	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	H 000000000000000000000000000000000000
	AN GRAND MEAN GREAND MEAN VARIATION	RG/HA PLOWER MATURITY WUMBER 1 WEIGHT 2 WEIGHT 2 LODGING SHATER HARVEST WEIGHT PLANT WEIGHT OF SED
VARIETY OR CROSS	SA VA	(*** TELD S TO S TO DULE DULE DULE LANT LANT SER
ENTRY	11777777777777777777777777777777777777	LSD

YEAR 1975	
8 1/9	
LXPERIMENT	
186	
TABLE	

	[5101		संसंसं		-000	0000000000000
	PLANT	20000	7.8	25.25 23.53 23.78 24.70 15.78	30.02 1.50 9.99% 4.29	0.0664 -0.16 -0.01 -0.01 -0.12 -0.00 -0.18 -0.28 -0.28 -0.00
	NCDULE NEIGHT 2	しておせり	B (- 4 0	1.37	1.66 0.15 17.98% 0.43	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	NOCULE WEIGHT 1		ww.27.	0.00 0.00 0.00 0.01 0.00 0.00	0.44 3.08 35.10% *******	+ + + + + + + + + + + + + + + + + + +
M SIL, 1	NCDULE NURBER 2	65.2 79.7 86.2 61.0	57.0 52.7 40.0	221.25 239.75 298.25 263.00 337.75	271.46 28.83 21.22% *******	00000000000000000000000000000000000000
ANA 2 M 8 DEG L - A R (GU	NODULE NUMBER 1	0220	6.0 7.7 4.0	137.25 144.75 131.25 167.75 175.75	145.20 20.48 28.22% *******	10.24 10.01 10.01 10.02 10.02 10.02 10.02 10.02 10.03
CCUNTRY - TEVATION LONGITUDE LONGITUDE LONGITUDE LARRING EN 3.75.0, K 66.47 or RICO), JU	DAYS TO	0000	33.00	93.93 93.00 99.00 99.00	96.64 1.58 3.26% 4.51%	0.479 1,000 1,000 0.18 0.01 0.08 0.00 0.00 0.49 0.49 0.49 0.49 0.49 0.49
HASSAN 1976 22%, CLAY 11.2, P 39	DAYS TO	81.00	2000	28.33 28.00 28.00 28.00 28.00	23.64 0.00 0.00% 0.00	0.055++ -0.11 -0.17 -0.17 -0.18 -0.06 -0.18 -0.18 -0.0
ERICA  NAHAB, I  NUAFY 21,  144, SIIT  KG/IA) - N  E - JUEI	YIELD XG/HA	85.4 62.3 34.0	45.8 46.5 39.4 84.2	1)14,20 991,01 990,89 876,67 793,58	1168.01 145.08 25.53% 426.46 0 R R E L A	1,00 0,55 4,47 -0,14 -0,14 -0,10 0,00 0,00 0,00 0,00 0,00 0,00 0,0
CCRE 6 DEG 8 - A. ED - J. USED WARIE'	1 1 1 1 5 7 8	RICO)		R	GRAND MEAN ARIETY MEAN F VARIATION *******C	KG/HA FLCWER MATURITY NUMBER 1 NUMBER 2 REIGHT 1 REIGHT 1 EBIGHT 2 EBIGHT 2 EBIGHT 2 EBIGHT 2 EBIGHT 3 EBIGHT 3 EBIGHT 4 PELGHT 4 PELGHT 7
REGION - S SITE + ENE LATITUDE - COOPTRATCR CATE FLANT SOIL TYPE PERTILIZER AMOUNT OF SUBSTITUTE	VARIETY OF CRCSS	JUPITER (GUYAVA) JUPITER (PUEFIC DAVIS	HARDEE FCEREST CCLUMBUS BCSSIER	TRACY ULLIAMS IMPROVEL PELICAN HAMPTON 266A COBB WCODWORTH	GRAN  GRENOR OF A VARIET  CCEPPICIENT OF VAR  VARIETY MEANS (*****	VIELD DAYS TO DAYS TO NCDULE NCDULE NCDULE NCDULE NCDULE PLANT PLANT POLS PER 100 SEED
	ENTEY	- 7 th to	w w 5 m	3	STANDAR 5% ISI VA	

UEC)	QUALITY OF SEED		% 0000 ••••	PROB=. 01) ++ ++
(CONTINUED	100 SEED WEIGHT	18.56 17.59 17.59 15.20 15.02 17.21 17.21 14.83 14.93 14.08	16.35 0.51 6.22% 1.45	- 0.00 - 0.000 - 0.0000 - 0.000 - 0.
1R 1975	PODS PER PLANT	12.75 14.50 12.50 12.50 10.25 10.25 10.00 11.00 11.00	10.79 1.31 24.35% 3.76	PROB=.05 0.23 0.43+ 0.43+ 0.13 0.02 0.22 0.22 0.28+ 0.22 0.23+ 1.00
648 YEAR	PLANTS E	252.75 263.76 249.50 244.25 313.25 253.25 237.50 262.25 313.50 113.50	249.70 21.75 17.42% 62.23	(+ 1 P P P P P P P P P P P P P P P P P P
EXPERI EENT 6	SHATTER	000000000000000000000000000000000000000	0.00 0.00 0.00%	N S N O O O O O O O O O O O O O O O O O
TABLE 186 EX	N N	(GUYANA) (PUERTC RICO) S I PELICAN 266A	GRAND MEAN R OF A VARIETY MEAN ICIENT OF VARIATION MEANS (******=NS)	YIELD KG/HA DAYS TO FLOWER DAYS TO MATURITY NCDULE NUMBER 1 NCDULE WEIGHT 2 PLANT 193 SEED WEIGHT 2 OUALITY CF SEED
	VARIETY OR CROSS	JUPITER JURITER JURITER JURITER DAVIS HARDEE FCRREST COLUMBUS BOSSIER TRACY WILLIAMS IMPROVE HAMPION 2 COBB	CARD ERRO COEFF VARIETY	
	ENTER	- 4 W L W Q D A A A A A A A L	STAB	

R 1975
YEAE
368
EXPERIMENT
187
TABLE

SITE - ENMORE

LITITUDE - 6 DEG. N

CCOUNTRY - GUYANA

ELEVATION - -2 M

LONGITUDE - 5 E DEG. N

CCOPERATORS - A.H. WAHAB, I. HASSAN

DATE PLANTED - JANUARY 21, 1576

SCIL TYPE - SAND 3%, SILT 24%, CLAY 63%, PH 4.2

FERTILIZER USED (KG/HA) - N 11.2, P 35.0, K 66.0

ACCOUNT OF MOISTURE - 842 BM

SUBSTITUTE VARIETIES - JUPITER (FUERTO RICO), JUPITER (GUYANA)

IOEGING	1,000	
PLANT	28.25 36.25 29.75 23.00 18.50 17.75 17.75 17.75 17.75	20.88 3.16 3.16 3.16 3.16 3.16 3.16 3.16 3.16
NCEULE WEIGHT 2	000000000000000000000000000000000000000	** * * * * * * * * * * * * * * * * * *
NOCULE WEIGHT 1	0 . 12 0 . 30 0 . 23 0 . 23 0 . 22 0 . 22 0 . 23 0 . 14 0 . 14 0 . 14	** # # # # # # # # # # # # # # # # # #
NCDULE NUMBER 2	205.50 216.50 172.75 172.75 190.25 190.25 198.50 264.07 194.25 193.00 175.50	208.73 37.32 35.75% ************************************
NODULE NUMBER 1	133.25 122.00 144.50 135.50 131.00 144.25 116.50 125.75 96.50 147.75 123.50	** ** ** ** ** ** ** ** ** ** ** ** **
DAYS TO	110.00 110.00 110.00 106.25 110.00 102.50 98.75 110.00 104.25	8 8 32 % 8 32 % 9 11
LAYS TC FLOWER	477.000 477.000 331.000 331.000 331.000 331.000 331.000	34, 50 4, 57% 4, 57% 1 1 2 25 1 2 25 1 3 3 1 1 0 67 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
YIZLD KG/HA	1822.34 1673.92 1285.24 1246.77 1012.9.37 1012.9.37 1012.15 683.73 683.73 582.43 387.50	9556.14 144.40 30.21% 413.08 413.08 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1
VARIETY OR CROSS	JUPITER (GUYANA) JUPITER (PUERTO RICO) JUPITER HARDEE TARROYED PELICAN HAMPTON 266A BOSSIER FCRREST WILLIAMS COLUMBUS COBB	A VARIETY MEAN NI OF VARIETY MEAN S (*******NS) S (*******NS)  XIELD KG/HA AYS TO FLOWER AYS TO FLOWER NCDULE NUMBER 1 NCDULE WEIGHT 2 NCDULE WEIGHT 2 NCDULE WEIGHT 2 NCDULE WEIGHT 1 NCDULE WEIGHT 2 PLANT LCGGING SPER PLANT C OG SPER PLANT O SFEE WEIGHT O SFEE WEIGHT O SFEE WEIGHT
FNTFY VAR	14 JUPLIT 13 JUPLIT 14 JUPLIT 2 HARDE 4 HARDE 6 BOSSI 6 BOSSI 12 WILLI 10 COLUM 7 DAVIS 11 WOODW	STANDARD ERROR OF COEFFICIE D D D D D D D D D D D D D D D D D D D

UEC)	QUALITY OF SEED		0.0	0.00	00.00 0.00 0.00 0.00 0.00 0.00 0.00 0.
(CONTINUED	100 SEED WEIGHT	200.14 200.14 200.14 201.14 20	070	23.37 0.47 4.69%	- 0.08 - 0.08 - 0.09 - 0.09 - 0.09 - 0.16 - 0.16 - 0.16 - 0.32 - 0.32 - 0.00
EAR 1975	PODS PER PLANT	14,75 11,25 12,53 12,53 7,53 7,53 8,75 8,75 8,75	1.00	9.45 1.68 35.59% 4.81	PROB=.05 0.73*+ 0.19 0.13 0.04 0.052*+ 0.052*+ 0.00 0.00 0.00
368 YE	PLANIS	988. 19. 222. 14. 92. 95.	19.7 43.0 89.0	195.32 16.87 17.28% 48.26	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
XPERIMENT 3	SHATTER	000000000000000000000000000000000000000	000	1.33	N S S S S S S S S S S S S S S S S S S S
TABLE 187 E	S	(GUYANA) (PUERTC RICO) L PELICAN 266A S	H	GRAND MEAN OF A VARIETY MLAN IENT CF VAFIATION ANS (******=NS)	YIELD KG/HA DAYS TO FLOWER DAYS TO MATURITY NCEULE NUMBER 1 NCEULE NUMBER 1 NCEULE NUMBER 2 NCEULE NEIGHT 1 NCEULE WEIGHT 1 NCEULE WEIGHT 2 PLANT LOBGING SHATTER PLANT HARBETTER POLS PER PLANT 107 SEED WEIGHT
	VARIETY F OR CROS	JUPITER JUPITER JUPITER JUPITER HARDEE IMPROVE HAMPTON TRANDION TRANDION TRANDION TRANDION TRANDION TRANDION TRANDION TRANDION COLUMBUS	# O	NDARD ERROR CCEFFIC I VARIETY ME	
	NEL	4 m - m 4 M 8 9 9 7 0	- u: -	ST ST	

		PLANT EIGHT LOI	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0.000000000000000000000000000000000000	25.05 2.35 3.89 3.89	0.40++ 0.65++ 0.05 0 0.03 0 0.15 0.03 0 0.03
		NCDULE EIGHT 2 H	110000000		0.23 25.78% ******	0.27 0.07 0.07 0.07 0.07 0.03 0.03 0.03 0.0
		NOCULE NEIGHT 1 W	- 20 60 - 6	00000000	0.61 37.68% ********	0.09 0.09 0.09 0.15 0.15 0.05 0.05 0.05 0.09
	24 4	NCEULE NUMBER 2 W	01110	0 4 F 4 6 F 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	26.89 27.14% ********	00.00 00
	GUYANA - 22 M ESTEL - A EITEB (GU	NOBULE NUMBER 1	ひしひししゅ	- L L L L L L L L L L L L L L L L L L L	120 - 34 18 - 79 31 - 23% ******** (* - PBOB:	0.008 0.008
AR 1975	COUNTRY - ELEVATION LONGITUDE DATE HASTV 44, Ed S.1 5.0, K 66.0	DAYS TO	0000000	00000000000000000000000000000000000000	0.04 0.04 0.04 0.04	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
47 YE	HASSAN 1975 11, CLAY 7	DAYS TO FLOWER	007500	22277777	34.50 7.11% 3.51 A I I C N	0.000000000000000000000000000000000000
PERLMENT 6	MERICA INTENTION INTENTION INTENTION INTENTION INTENTION INTENTION	YIELD KG/HA	30 1 2 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	33.6.6 33.00.5 33.10.5 33.10.5 33.5 33.5 30.5 30.5 30.5 30.5 30.5 3	2165.96 248.76 22.97% 711.60	1.00 0.33+ 0.038+ 0.027+ 0.222- 0.222- 0.654+ 0.14+ 0.14+ 0.14+ 0.14+
188 EX	SOUTH P BONNE - 6 DEG RS - A TED + 1 - SAMI R USED MCISTI		fico)		AND MEAN LTY MEAN ARIATION ****=NS)	KG/HA FLCWER MATURITY NUMBER 2 NUMBER 2 NEIGHT 1 WEIGHT 1 LODGING SANTTER HARVEST WEIGHT WEIGHT
TageL	REGION - SITE - LA LATE DESTRUCE CCOPERATO DATE PLAN SCIL TYPE PENTILIZE AMOUNT OF SUBSTITUT	VARIETY OF CROSS	JUPITER (PUERTC DAVIS HARDEE HARDEE JUPITER JUPITER	(GUYANA)	GR COEFFICIENT OF A ARIETY MEANS (****	XIILD DAYS TO DAYS TO NCDULE N
		INTEX	0) C 0) Q C	0.4 0.4 0.0 0.5	STANDA TSI N	

-0.22 -0.19 -0.11 -0.27 -0.05 -0.05 -0.01 -0.30 -0.30 -0.30 -0.30

i																																			1
E)	UAL	00.0	, (	> 0	) (	. ,	0	_	~	_	• -	~	_				0.00		00.00		B=.01)													1.00	
(CCNTINUEE)	WEIGHT O	16.88	,	-	ċ	9	15.20	ထီ	18.63	14.87	19.59	18.12	20.72	15,95	17.49		17.66	7 5	2.07		++ - PRO	0.14	-3.43++	-0.28+	0.47++	3.27+	0.13	3.34	-0.24	0.22	90.0		+ + 1 0 0 0 -	0.00	
1975	DS PER 1	n (1)	21.25	0	- 7	. 5	5	. 7	. 5		. 2	2	0			9	23.53	† † †	14.02%		PROB=.05	++ ## 0	7.58++	0.74++	-0.14	0.11	0.05	).22	++09.0		-0.23	_	0	Co · c c c c c c c c c c c c c c c c c c	
YEAR	PLANTS PO	208.75	201.00	191.50	210.50	2)3,25	208.50	209.75	236.33	208,50	174.25	196 00	176.25	137 00	110 05	27.011	0	4.3	15,12%	>	+ )	0 65++	7	0.47++	1 00	0.17	0.09	), 23	1 00	(1)	-0.07	0		0.18	
ERIMENT 647	SHATTER	1.00	1.00	1,00	1.00	1.30	1,00	 	1.23		1,00	0.00	1. 20 20 1.	1.20	0.4.	1.00	1.37	0.13	24.62%		S N	4LC 0-	7 16	0.00	٠ لا 	0.00	· · ·	7.13	1	-0.10	1.00	-0.07	-0.23	0.06	,
.88 EXP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1001	4						7								RAND MEAN	TETY MEAN	F VABIATION	20	ELATI	3	KG/11	T I C	MATUBLI	NUMBER	NOTE ON		3		SHATTER			THEIGHT	
TABLE 1	EIY	ر د	EK (FOTH			ON Zeha	E I	1	VED PELICAN		<u>~</u>	IAMS	Ev.	Y.		WORTH	υ	N	DEFFICIENT OF	-	CCRR		YIEL	I S I	AYS	NCDULE	CDUL			ದೆ.		F	E DE DE	田田	7778
	Y VARI	6 2	TIACLO	CAVAN	HAPDE	LAMPI	JUPITER	TCRRE	IMPRO	CCIOS	JUPI	MILL	RCSSI	TRAC	CCBB	COD		7 00 4 4 4 4	BNLAKU	ISI VARIETY															
	ENTE		· ·	- 1	(1)	7	-	ഗ	<i>=</i> 3	13	14	12	9	w	u	1			13	(T)															

	IOEGING	0	00	0,	, 0	0	0.	0 0		0	0.00	<		0.00%		C		0.0		0	0.	0	0	0.	C.	0.00
	PLANT BEIGHT "	1.7		2.8	1.5	0.8	0.7	7.0	7.5	9.8	19.13		; -	11.09%		0.80++	70		0.00	CV.	00	7 0	-	+0/	00	00.00
	NCDUIE WEIGHT 2				9 8	0	0 0	20		0	0.00	0		0.00%	01)		•	•	0 9			, 0	0	0	, (	00.00
	NOLULE WEIGHT 1	- 17 °	1.48	70	. 6	ς.	<b>.</b>	. 2		.2	1.03	1.32	0.13	20.01%	+ - PFOB= . (	.2	70 *	* C		0.	٠,	,0	0.	6.0	7.	0.00
PRIL, 1976	NCDUIE NUMBER 2	0 0	00.00	9 9		0.	, c	0	0	0.		0	.00	00.00	+ 50°=	0	0	9 0	1.00	0.	· ·	0	0.	0.	9 0	
- GUYANA N - 1 M NZ - 58 DEG VESTEL - A	NODULE NUMBER 1	67.5	247.50	80°0 30°0	42.5	12.5	82°3 50	47.5	67.5	72.5	30.0	4.2	35,21	26.65%	(+ - PROE	.2	C.	- 0	00.0	2,5	•		0.	0,1		?
CCUNTRY ELEVATIO LONGITUD DATE HAB 2.6, K 56.	DAYS TO	0.0	116.75	6.2 6.2	7.0	ro u	היי	, LO	0,5	0 . 1	2.0	2	1.74	3.10%	ss.	. 2	0.0	,	0.00	7.	٠. د	0	00.	. 43		00.
PEESAND 1975 11.3, P. 2	DAYS IC FLOWER	7.0	33.00	3.0	3.0	2 .	3.0	4.7	50 1	را در در	2 . 5		0.47	1.34	ATIONS	U)	7	. m	0.00	0 0	ว เก		0	2 4	2 0	0
WERICA 45 MIN. N ADAMS, D. ECEMBER 11, (KG/HA) - N KE - 1671	X1ELD KG/HA	1342.35	62.1	38,2	64.3	63.4 50.5	10.7	50.0	33.4	α c	9.0	5.9	9.31	44.57%	ORRELI	0	50	1 N	00.00	7 5	9 00	0	00	- v	7.0	0
REGION - SOUTH AN SITE - MCN REPOS LATITUDE - 6 DEG CCOPERATCES - H. CATE PLANTED - DISCIL TYPE - CLAY FERTILIZER USED AMOUNT OF MCISTURE		PELICAN	, , , , , , , , , , , , , , , , , , ,	OCA										(*********) S	Ü		DAYS TO FLOWER DAYS TO MATHRITY	ULE	NCDULE NUMBER 2	NODULE WEIGHT 1	HEIGH	TODGING		POLS PFR PIANT	j.m	0
1	VARIETY OR CRCSS	JUPITER	DAVIS		COBB	TRACY	SEMMES	CCLUMBUS	HARDEE	WILLIAMS	WOODWORTH		STANIARD ERROR OF A	A ISI VARIETY MEANS			40	2	A 2	a 2			i.	TOG	100	0.0
	RUPEER	F 27	~ (	9 6	E) Q	یں ب	14	10	173 CT	2 2	=		STANL	EN ISI V												

YEAR 1975

EXPERIMENT 489

TABLE 189

	PERCENT	24.9	20.6	22.0	24.2	22.00	0 · C · C	21.3	20 5	23.0	21.0	22.0	22.0	27.0	21.2																			
	PERCENT PROTEIN	40.4	46.4	44.1	41.3	42.4	42.8	44.2	44.6	42.8	46.7	44.9	42.6	45.6	43.8																			
JEC)	QUALITY OF SPEC	1.00	1.10	1.00	1.00	1.33	1.00	1.00	1.00	1.00	1.33	1.00	1.33	1.00	1.00	1,33	00.00	0.00%	00.0	JB=.01)	00.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	7.1)	00.00	00.0	00.00	0.00	1.00
(CCNTINUEE)	100 SEED WEIGHT	15,35	14.48	17.68	20.00	15.69	17.75	17.55	20.50	16.20	23.23	16.45	21,83	21.68	18.55	18.41	0.68	7.34%	1.53	++ - PROB=.01)	-0-11	- 3.23	-0.42++	), 12	00 0	-0.18	00.00	-0.20	0.9)	00.00	3 . 34+	-0.18	1.33	00.00
YEAR 1975	PODS FER 1	42.50	20.25	15.25	12.75	12,25	14.50	12.50	7.75	10.50	10.01	16.75	7.75	7.75	7.00	14.11	2,16	30.66%	6.19	PROB=.05	0.68++	3,63++	0.29+	3.19	00.00	0.20	0.00	0.66++	3.33	0.00	1.37++	1.00	-0.18	00.00
	FLANTS P	87.25	159.25	89.25	101,50	55.75	58.00	70.00	72.00	66.00	24.75	14.00	23.00	22,25	00 *9	63.64	8,84	29.14%	25.27	d - +)	0.70++	0.26	0.43++	-3.36	00.00	0.32+	00.00	0.70++	0.00	00.00	1.03	0.37++	-0.34+	00.00
EXPERIMENT 485	SHATTER	00.00	00.00	0.00	00.00	0,00	00.00	00.0	0.00	0.00	0.00	00.00	00.00	0.00	00.00	0.13	0.00	0.00%	00.00	C N S	0.00	0,0)	00°0	0.33	0.00	0.00	00.00	0.00	0.11	1.00	0.33	0.00	0.13	00.00
TABLE 189 EX			PELICAN		A											GRANE MEAN	VARIETY MEAN	CF VABIATION	(SN=*******)	RREIATI	YIELD KG/HA	DAYS TC FLCWER	DAYS IC MATURITY	NCEULE NUMBER 1	NODULE NUMBER 2	NCDULE WEIGHT 1	NCDULE WEIGHT 2	FLANT FEIGHT	LCDGING	SEATIER	HA			QUALITY OF SEED
TA	VARIETY OR CROSS	JUPITER	I MPROVEC PE	DAVIS	HAMPTON 266A	FCRREST	CCBB	BOSSIER	TRACY	SEMMES	CCIUMBUS	HARDED	CALLAND	WILLIAMS	WOODWORTH		STANDARD EFROR OF 3	COEFFICIENT	VARIETY MEANS	0 0	X	DAY	DAY	NC	ON	MC MC	NC	pri int			Id	POLS	100	OUA
	FNTEY	_	7	-	2	S	ш	Ų	w	14	10	(*)	07	12	11		STAND		ISI															

7
YEAR
420
EXFERIMENT
190
TABLE

	TCEGING	7000	20000	111111111111111111111111111111111111111	1.23 0.12 19.38%	0.23 0.14 0.05 0.03 0.03 0.03 0.14 0.14 0.10 0.22 0.22
	PLANT	4.0	900	35.00 32.25 33.50 17.00 36.75	41.65 4.07 19.56% 11.63	0.53 -0.54 -
	NCDULE FIGHT 2	0.00	1.48 2.13 2.13	200000000000000000000000000000000000000	1.42 0.20 28.30% 0.57	0.02 0.05 0.05 0.03 0.15 0.01 0.12 0.03 0.12
W 76	NODULE NODULE	w 62 00	2	0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.00 0.13 26.32% 0.38 FROB=.0	0.19 0.02 0.04 0.42 1.00 0.54 0.01 0.03 0.01 0.01 0.01
. 36 MIN. W ECEMBER, 19	NODULE NUMBER 2 W	42.3 36.5 32.5 97.0	5 12 10 0	101.25 133.25 77.25 124.75 132.75 80.50	119.78 15.47 25.83% 44.15	0.13 0.27 0.04 1.00 1.00 0.75 0.05 0.05 0.05 0.05 0.05 0.05
- PERU N - 517 M E - 78 DEG.	NODULE NUMBER 1	3.0	2 / 20 0 1	103.00 185.00 115.00 154.25 174.75	140.78 15.58 22.13% 44.46 (+ - PROE=.	0.01 -0.39++ -0.16 -0.46++ -0.21 -0.27 -0.27 -0.15 -0.15 -0.17
COUNTRY - ELEVATION LONGITUDD DATE HAR	DAYS TO	11.2 98.2 95.5		96.50 89.00 91.00 93.25 89.00	96.55 0.77 1.59% 2.18	0.59++ 1.00 -0.16 0.27+ 0.27+ 0.02 0.02 0.04+ 0.14 0.09 0.09
SQUEN , 1975 TELICAN	DAYS TO FLOWER	0 - 0 -	11 ~ ~ ~ ~	27.00 24.75 24.75 25.00 25.50 25.50	27.98 0.54 3.87% 1.55 A I I O N S	0.29+ 0.52+ 0.52+ 0.52+ 0.39+ 0.01-
ICA O MIN. S OYANO SE EMBER 13 H 8.3 I 62 MM N S - 4 I ONAL	YIELD RG/HA	9.0	, 8 8 6 6 , 8 8 6 6	2172.93 1954.56 1912.88 1801.61 1739.93	2494.50 277.35 22.24% 791.57 C R B E L 1	0.29 0.29 0.59 0.59 0.19 0.19 0.23 0.53 0.69 0.69 0.00
REGICN - SOUTH AMER SITE - CHICLAYO LATITUDE - 5 DEG. 44 CCOPERATOR - C.a. MDATE PLANTED - SETI TYPE - CLAY, PARONT OF MOISTURE ON UMBER OF IRRIGATION SUBSTITUTE VARIETY - NACL		AN (2)			MEAN MEAN TION =NS)	KG/HA FLOWER MATURITY NUMBER 1 NUMBER 2 WEIGHT 1 WEIGHT 2 HEIGHT 2 HEIGHT 2 HEIGHT 2 HEIGHT 1 WEIGHT 1 WEIGHT 1 WEIGHT 0 WEIGHT 1
REGICN - SC SITE - CHIC LATITUDE - CCOERATOF CATE PLANTE SCIL TYPE - AMCOUNT OF M NUMBER OF I SUBSITIUTE LCAL VARIE	VARIETY OR CROSS	JUPITER IMPROVED PELICAN COBB IMPROVEE PELICAN	HARDEE NACIONAL DAVIS COLUMBUS HAMPTON 266A		GRAND STANLARD ERROR OF A VARIETY CCEFFICIENT OF VARIA ISI VARIETY MEANS (*******	YIELD DAYS TO DAYS TO NODUIE NCDULE NCDULE NCDULE PLANTS POLS PER 10C SEE QUALITY
	ENTER	ਦਿਤ W) ਤ	10 7 TE 3	20 9 E 9 E 12	STANDARI S% ISI VAR	

UEC)	QUALITY OF SEED	3.50	1.00	1.50	1.00	2.00	2.00	3.00	3.00	2.25	2.50	4 ° 30	3.75	2.25	3.00	4 . 00	2.58	0.17	13.27%	64.0	PROB=.01)	-0.36++	-0.51++	-0.28+	0.15	-0.13	0 0 0 0 2	0.12	-0.26+	++96.40-	-0.20	20,01	0.25	1.00
(CCNTINUEL)	100 SEED WEIGHT	20.05	17.13	20.70	15.73	20.55	23.43	18.45	21.18	23,35	16,95	21.75	20.28	19,38	22.23	19.03	20.01	0.68	6.81%	1.95	++ PB	0.07			0.17	0.05	0.13	0.13	0.01	0.08	0.07	-0.36++		3,25
YEAR 1975	PODS PER PLANT	49.97	30.57	24.47	23,33	31.70	34.80	17.15	20.00	20.55	22,13	14.93	16.08	18.65	15.13	15.63	23.67	2, 15	18.16%	6, 13	PROB=.05	0.69++	J. 43++	0.84++	-0.14	0.11	0.08	-0.03	0.62++	0.22	0.18	-0.07		-0.21
	PLANTS 1	157.50	167.50	139, 25	201.25	157.50	159.25	167.25	161.00	137.75	172.00	166.50	154.00	138, 50	164.75	164,50	160.57	8.11	10.11%	23. 16	+)	-0000		3	0.08	0.09	0.11	90.0			-0.11	1.00	10.01	0.08
EXPERIMENT 420	SHATTER	1.00	2.00	1.00	1.30	1.00	2.00	1.00	1.00	1.00	1.00	1.50	1,25	1,75	1.00	1.00	1.23	0 12	10 07%	0.33	SNO	0.17	0.51++	60.0	-0.15	0.11	0.01	0.27+	0.41++	4+770	1.00	-0.11	0.18	-0.20
190 EXI	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(2)														NETM INVO			CF VARATACE (********)	ELATI	KG/HA	FLOWER	MATURITY	NUMBER 1				BEIGHT	LODGING	SHATTER	HA		WEIGHT CF SEED
TABLE 1	VARIETY OR CROSS	INDITER	I MPROVED PELICAN		TMPROVFL PELICAN		NACIONAL	DAVIS	COLUMBUS	HAMPTON 266A		TRACY	CIABK 63	BOCCIER	E CONTRACTOR CONTRACTO	WOODWORTH	a d	4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CERCE OF A VAN	VARIETY MEANS (****	CCRR	THIA	OF SV&C	DAYS TO	NODULE	NODULE	NODOLE	NCDULE	PLANT			PIANTS	PODS PER	100 SEED QUALITY
	ENTER	•		, –			•				,					200		6 6 6 6	STALLABL	5% ISI WAR														

YEAR 1975
861
EXPERIMENT
191
TABLE

	PIANT HEIGHT I	46.50 9.50 9.50 9.50 9.50 9.70
	NCDULF WEIGHT 2	
	NOEULE WEIGHT 1	
. 21 MIN W	NCDULE NUMBER 2	* * * * * * * * * * * * * * * * * * *
- PEEU N - 232 M E - 76 DEG S VESTEL - A	NUMBEE 1	* * * * * * * * * * * * * * * * * * *
CCUNTRY. ELEVATIO LONGITUD OZA PAREDZ CATE HAB 28 %, FH 6.	DAYS TO	889.00 101.00 10
Z, V. MEND 976 22%, CLAY	EAYS TC FLOWER	28.75 39.75 39.75 39.75 39.75 39.75 39.75 41.00 10
ERICA B 31 MiN. S TUESTA DIA NUARY 9, 1 SOW, SILT E - 289 MM	XIELD KG/HA	328 5.24 2861.82 22566.35 22566.35 22358.39 22296.29 2296.29 2296.29 1808.29 1908.29 1916.697 100 1000 1000 1000 1000 1000 1000 100
- SOUTH A EL PCRVEN DE - 6 DEG ATCES - H. ANTED - J ANTED - G CP - CSTU	 	AND MEAN AAFIATION ****=NS)  ****=NS)  ****=NS)  ****=NS)  *****  KG/HA  PLCWEH  RG/HA  PLCWEH  TOFICHT  LOBGINT  LOBGIN
REGION SITE - LATITUD CCCPERA DATE PL SCIL TY AMOUNT NUMBER	VARIETY F OF CROSS	IMPROVED PELICAN FORREST JUPITER CALLAND SEMMES DAVIS HARDEE CCLUMBUS WILLIAMS TRACY HAMPTON 266A BOSSIER CCBB WOODWORTH CLARK 63 CARK 63  EARD EEROR OF A VARI CARK 63  TACY NODULE NOD
	NTBY	2012 = 1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

LCEGING

ENTEY

85 U)

(CCNTINGED)	130 SEED QUALITY FIGHT OF SEED	6.03	7	*7 6/00	2.70 3.	88 2.	15.48 2.00	93 2.	8 40 2 2	2 25 1		0.28	0.43 2.	3,	5.45	1 88 7	1000	7 60	2.73 2.	,	-	27 0.	1% 9.8	78	++ - PROB=.01)	0.18 0.23	0	0	-0.12 -0.17	0-	0	0	0 +/	0	0	3	-0.17 -0.14	00.	0.37++ 1.00
EAR 1975	PODS PER FLANT	21 75		C/ 07	20.5)	20.25	19,50	22.25	11 75	75 75	01.07	19.00	19.75	20.75	27.50	21 75	01.04	18.50	21.00		22.72	۲.	47 .	5.99	PROB=.05	0.04	3.17	0.16	3.21	0.15	00.00	00.00	-0.21	0.00	00.00	-0.13	0	-0.17	-0.14
7 86	PLANTS	C	•	101.25	t . 5	3.57	156,75	( )	J LC	110000	2	2		CO				?	146.75			• 09	.5	24	- +)	0.32+	-3.25	-0.24	3.96	0.09	00.00	00.0	0.16	0.33	00.00	1.00	-0.10	3.38	-0.15
t LNTWINTS:	SHATTER		5 0	00.00	0.0	00.00	00.00	000			0.0	00.00	00.00	00°0	00.00		00.0	0.00	00.00		٦.	0,	0	00.00	C N S	-	_	-	_	-	_	-		-	-	-	00.00		-
TABLE 191 EX	ENTRY VARIETY NUMBER OR CROSS		LEFKO	FORRE		U CALLA	C L E E L L L L L L L L L L L L L L L L	100000000000000000000000000000000000000	DAVID	HARDEE	CCLUMBU	13 WILLIAMS		-	0110000	,	١	WCCDWCR	S		GRAND MEAN	VARIETY	COEPFICIENT OF VARIA	ETY MEANS (*****	CCRREIATI		AYS TO FLOWE	M	NCLULE NUMBER	NUMBER	-	ULL WEIGHT	ELANT EEIGH	LCDGI	TIE		ER	100 SEED WEIGHT	TY CF

Cin
R.Y.
12.1
X
(J)
99
7
L
7
IML
H
04
124
a
×
.17
0
92
proj
IMBER

	<b>C3</b> %		
	NHM	1976	
COUNTRY - PERU BLEVATION - 232 M	LCNGITUDE - 76 DEG. 21 MIN.	11, 1976 DATE HARVESTED - JONE, SIII 267 CIAV 272 DH 6 R	
REGION - SOUTH AMERICA SITE - EL PCRVENIB	LATITUDE - 6 DEG. 31 MIN. S COOPERATORS - 11. THESTA DIAZ. D. SOPETGHEZ	SCIL TYPE - SAND 47%, SIIT 26%.	AMOUNT OF MCISTURE - 409 MM LCCAL VARIETIES - VAEA, NACIONAL

TOTGING	00000000000000	0000	
PLANT	221.000 221.000 221.000 221.000 221.000 221.000 221.000 221.000 221.000		00.00
NCDULE WEIGHT 2	000000000000000000000000000000000000000		
NOD DLE	000000000000000000000000000000000000000	00000	
NCDUIE NUMEER 2	000000000000000000000000000000000000000	=, 35	
NODULE NUMBER 1	000000000000000000000000000000000000000		000000000000000000000000000000000000000
DAYS TC	116.00 116.00 100.00 111.33 100.00 116.00 120.00 120.00 120.00		+ 000000000000000000000000000000000000
DAYS TC FLOWER	51.00 148.00 51.00 51.00 51.00 68.30 68.30 68.00 6	4000 C C	**************************************
XIELD KG/HA	2037,91 1508,71 1898,30 1807,04 1836,61 1752,43 1621,16 1577,40 1554,48 1554,48 11554,48 11554,38 1487,38 1423,20 1423,20		0.0000000000000000000000000000000000000
VARIETY OR CROSS	IMPROVED PELICAN HARLEL FORREST NACIONAL COLUMBUS JUPITER HILLIAMS CIARR 63 HAMPTON 266A TRACY WOODWORTH VALA DAVIS COEB	ARD ERROR OF A VARLETY MEAN COEFFICIENT OF VARIATION VARIETY MFANS (*********S)  C YIELD KG/HA	DAYS TO FLOWER DAYS TC MATURITY NODULE NUMBER 1 NODULE WEIGHT 1 NCDULE WEIGHT 1 NCDULE WEIGHT 2 PLANT HEIGHT 1 COGING SHATTER PODS PER HARVEST PODS PER PLANT 100 SEED WEIGHT QUALITY CF SEED
ENTEY	2 N O T C C T C A B G T C F A B	STANDAR	

UEL)	QUALITY OF SEED	2.00	2.33	2.00	1.75	1.23	1.25	2.00	2.00	2.00	2.13	2.00	2.00	2.00	2.00	2.33	1.87	0.09	10.12%	0.27	ROB=.01)	-0.22	0,30+	0.33+	0.13	00.00	00.00	00.00	-0.32+	7.3)	00.0	-0.21	-0.01	[N]	1.00
(CCN1INUE	100 SEED WEIGHT	20,38	15,13	19.03	15.00	22.03	23.18	20.00	21.93	2€ .20	19,98	18,15	22.05	9	0	-	20.78	0.11	1.08%	0.32	++ - PR(		-1.25		0	0.	0.	00.00	0.13		00.00	), 16	0.82++		-0.25
EAR 1975	POUS PER PLANT	27.30	23.00	5.	$\overset{\circ}{\sim}$	25,5)	9	۰ 7	° ħ	0	9	2 .	٠ ٤١	3,	4.	5	26.52	0.41	3.11%	1.18	PROB=.05	-0.05	-).)7	0.08	7.17	00.00	00.00	00.0	-0.05	).))	0.00	70.0	1.00		-0.01
Y 6	PLANIS	о п	~	119.25	0	. 2	. 7	0	. 2	.7	0	118.00	o,	1.	109,50	. 2	00	5	9.267	0	+)	0.23	- 3, 11	0.09	), ))	00.00	00.0	00.00	0.30+	0000	00.00	1.13	0.07	3.16	-0.21
PERIMENT 49	SIATTEF	2.00	2.00	2.00	2.30	2.00	2.30	2.30	2,33	2.00	2.00	2.00	2.00	2.11	2.00	2.00	2.00	0.00	3.33%	0.00	N O	0.10	), ) )	0.30	0.))	00.00	0.00	0.00	00.00	3.13	1.00	0.13	0.00	3, ) )	0.30
TABLE 192 EXI	NIIY VARIETY LFEFF OF CROSS	IMFRO			NACIONAL						TRACY					BOSSIER	GEAND MLIN		COEFFICIENT OF VARIATIO	ISI VARIETY MEANS (******	CCRRELATIO		AYS TC	YS TO MATUFIT	23		CDULE WEIGHT	ODULE WI	PLANT REIGHT	ICDGING	0.2	NIS	-1 i		QUALITY OF SEED
	H K	7	(7)	U	41	10	-	[7]	11	17	w	12	14	7	W)	ę				BC B1															

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422
EXPERIMENT
193
TABLE

	LCEGING	0.00	0.0	0.0	0.0		, c		0.	0	0.	# 00 ° 0	2	000	00	0,0	0	0,1	.0	0	00	0
	PIANT	48.25	3,0	0.2	2.7	3.2	ייני מיני	9.7	2.7	8.0	, a	17.18%	r ·	79	. 5 d	ທີ່	0.33++	0 0	0	-	9 -	
	NCDULE WEIGHT 2	4.92	ບ. ຊຸ	. 6	. 2	 	. 6	· Cl	00 =	. 0		32.14%	0	522	າເດ	43.	00.	n c	0	.24	. 2	0 1
FE 97.5	NODULE NEIGHT 1	2,31	.5	າເກຸ	9.	7.	. 17	. 7	70	. 7	2.53		OB=	0.17	49	, o	C, c	? ?	0	-	2 -	0
ECEMBER,	NCD CLE	345.00	02.7	75.0	2./. 60.5	05.7 47.2	18.0	20.5	76.5	74.0	3,5	34 C	+ 50.	65	100	2 (7	484	000	0	C1 11	50	0 1
- PERU - 80 M DE - 80 DEG RVESTEL - L	NODULE NUMBER 1	352.75 395.25	999.2	000	53.2	0 " n n	38.5	55.2	73.2	17.7	3.8	103.36	Q <sub>1</sub>	0.63++	000	+67		000	00		14	
COUNTRY ELEVATI LONGITU DATE HA	DAYS TO	96.00	6.0	3.0	1.2	7.0	5.7	7.7	2 . 0	5 . 7	90.38			0.55++	0.58++	02	0.37++	000	00.00	0.84+	0.17	00.00
SCURRA 975 IMPRCVED	EAYS IC FLOWER	39.75	50.5	7.6			0 . +	0.1		. 0	34.97	4.	TIONS	0.76++	0 4	03	a) (c	00	000	4 0	0	0 1
MERICA 51 MIN. S DEL RIO E UGUST 22, 1 PH 7.6 RE - 500 MM TIONS - 5 TIES - HILL	YIELD KG/HA	3923.70 3711.16 3427.35	19.8	75.6	14.2	34.6	9 9 9	5°57	7.0	8.6	2622.83	3.6	ORRELA	1.00	10 10	7	010	0	~ ~	2 00		ere.
RA DEG 4 DEG - G.A ED - G.A ED - CLAY MOISTU VARIEA		z		N (2)							GRAND MEAN RIETY MEAN	OF VARIATION (********NS)	ິວ	KG/HA FLOWER MATURITY	NUMBER 1		HEIGHT	LCDGING	SHATTER	PLANT	WEIGHT	OF SEED
REGICN - S SITE - PIU LATITUDE - CCOFERATOR DATE PLANT SCIL TYPE AMOUNT OF NUMBER OF SUBSTITUTE	VARIETY OR CROSS	HILL IMPROVEC PELICAN DAVIS		IMPROVED FELICAN HARDEE	HAMPTON 266A	WILLIAMS	CCEB	TRACY		CLARK 63	OF A	CCEFFICIENT OF V X ISI VARIETY MEANS (****			NODULE	NCDULE			PIANTS	PODS PER	100 SEFE	TTTTNOA
	ENTEN	24 24	<b>←</b> თ į	u:> (*)	10	7 10 u	n c		, ,	-	STANDARD ERROR	SA ISI VAR										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

QUALITY OF SEED	000000000000000000000000000000000000000	000.00	PROB== 01)
100 SEED WEIGHT	17.60 16.13 19.98 17.13 16.98 18.30 19.28 19.28 19.28 17.28 17.23 17.23	365 985 85	- PB - 0 17 - 0 17 - 0 17 - 0 17 - 0 17 - 0 12 - 0
PODS PER 1	34.75 34.25 31.75 47.75 47.75 34.00 29.25 24.75 21.75 22.00 22.00 22.75 19.75 19.25	27.23 1.89 13.89%	PROB=_05 0.70** 0.84** 0.56** 0.55** 0.047* 0.00 0.00 0.00 0.00
PLANTS P	188.50 176.75 174.50 157.00 171.00 172.00 175.75 166.25 166.25 166.25 167.75 172.75 172.75 172.75 134.75	2 m ± m	(+ - PR 0.028# 0.155# 0.156 0.000 0.000 0.000 0.000
SHATTER	000000000000000000000000000000000000000	0000	00000000000000000000000000000000000000
	(2)	ND MEAN TY MEAN FIATION ***=NS)	K G H A T T I K G K H A R T L C G K G K H A R T U R E B L C G G K B E G
VARIETY OR CROSS	HILI IMPROVED PELICAN DAVIS JUPITER FORREST FORREST HAMPTOVED PELICAN HAMPTON 266A COLUMBUS WILLIAMS COBB WOODWORTH TRACY BOSSIER	RD ERROR OF A CCEFFICIENT ARIETY MEANS	YIELD DAYS TO DAYS TO DAYS TO NCCULE NCDULE NCDULE NCDULE PLANT POOLS PERM 100 SEER
NITH	# 3 C C Q E E E E E E E E E E E E E E E E E	STANDAR	

(CONTINUED)

YEAR 1975

EXPERIMENT 422

TABLE 193

### 3846.65 32.03 123.33 0.00 0.00 0.00 0.00 0.00 0.00 0.00	17		N G/ H A	FLOWER	MATURITY	NUMBER 1	NCDULE NUMBER 2	NODULE WEIGHT 1	NCDULE WEIGHT 2	PLANT	ICEGING
## PATER PRINCIPLE NATIONAL STATES AND THE PROPERTY OF THE PROPESTY OF THE PRO	2		ထ	2.0	23.9	0.00	3.33	0	00.00	5.0	0 1
## BESSTER	T (	۸ <del>۱</del> ۲	~	2.0	0.90	00.00	00.00	0	00 - 0	0	
FUNDING   FUND	- ,	DAVIS		1.0	2.3	0.00	0.00	0	0000		7 -
STANDER   STATIST   STAT	، ب	BCSSIFR	w	3.0	2.0	00.00	00.00	C	00.00	, 0	
MARDIE   MARTINE   MARDIE	J) (	FOBREST	~	8,0	2.0	00.00	00.00		00.0		
CALTANE   CALT		WILLIAMS	m	2,3	2.3	0.00	), ))			• C	
Variable	171	HARDEE	-	1.0	2.0	00.00	00.00	, 0	200	7 0	- 7
CLUMBER   COLUMBER	77	CALLAND	~	1.0	2.0	0.00	0-00	, ,		J U	
TELD KG/HA TON ZEGA  1913.31 22.00 92.00 0.00 0.00 0.00 0.00 0.00 0.	12	WCCDWORTH	10	3.0	2.0	00.00	00.00	, 0			- 7
FIRMPTON Z66A 1910.33 1 23.33 82.30 92.30 0.00 0.00 0.00 0.00 0.00 0.00 0.00	10	COLUMBUS	m	2.0	2.0	00.00		) C			- (
The property of the property	Ψ	TRACY	m	3.0	2.0	0.10	000	ر •		) c	
STANDARD EFRON OF A VARIETY HEAN 1752.43 22.00 94.77 3.00 0.00 0.00 0.00 0.00 0.00 0.00 0	(7	9	· c	3.0	0	00.0		, <			
STANDARD EERON OF A VARIETY HEAN 1525.30 24.00 92.00 0.00 0.00 0.00 0.00 0.00 0.00	11	CIARK 63	^*	0 0		00,0		, (		ວ ເ ດ ເ	
STANDARD EFRON OF A VARIETY MEAN 169.04 28.00 52.00 0.00 0.00 0.00 0.00 0.00 0.00	15	SEMMES		0 0		***	00.00	÷ (	0.00	0 0 0	-
STANDARD EFRON OF A VARIETY HEAN 1325,46 26.30 94.47 3.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	u	CORR		•	0 * 7	00.00	00.0	0	00 00	5.0	-
STANDARD EFROR OF A VARIETY MEAN 165.846 26.30 94.47 3.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	)			ر ر	2 0	00.00	00.00	0	00 0	5.0	10
STANDARD ERROR OF A VARIETY MEAN 169.84 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		GRAND	325.	6.3	7	0	0	0	0		,
VIELD   VARIATION   14.61%   0.00	STANDA		6.6	0	0	9	0	0000		41.33	- 0
YIELD   KG/HA		$\vdash$	4.61	. 30	. 9.3	. 33	.03	3.00%	20°00	0.0	5 6
C O R R E L A T I O N S (+ - PROE=_05	137 %		84.	0.	000	00.	00.	00.00	00.00	1.74	00.0
KG/HA 1.00 0.54++ 0.67++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0			± α	F	Ę.	6	(				
KG/HA         1.00         0.54++         0.67++         0.00         0.00           MATURITY         0.67++         0.00         0.00         0.00         0.00           NUMBER         1.00         0.00         0.00         0.00         0.00         0.00           NUMBER         2.00         0.00         1.00         0.00         0.00         0.00           NUMBER         2.00         0.00         1.00         0.00         0.00         0.00           NUMBER         2.00         0.00         0.00         0.00         0.00         0.00           NEIGHT         0.00         0.00         0.00         0.00         0.00         0.00           FEIGHT         0.71++         0.43++         0.85++         0.00         0.00         0.00           SHATTER         0.00         0.00         0.00         0.00         0.00         0.00           PLANT         0.00         0.00         0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00 <th< td=""><td></td><td></td><td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>7</td><td>a</td><td>PRO</td><td>0 .</td><td>0</td><td>.01)</td><td></td><td></td></th<>			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	a	PRO	0 .	0	.01)		
MATURITY 0.54++ 1.9) 0.55++ 0.00 0.00 0.00 0.00 0.00 0.00 0.		ı	0.0	5	0.67	0.0		0		0.71++	C
NUMBER 1 0.6 /** 0.55** 1.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		E MOTH	+ + 10		. 55	0.0		0		. =	
NUMBER 1 0.00 0.00 0.00 1.00 0.00 0.00 0.00 0		C	+/0	55	1.0	0.		0	- 1	0.85++	
NUMBER 2 0.00 0.00 0.00 0.00 1.00 1.00 0.00 1.00 0.		NUMBER	0.00	$\circ$	0,	0,		0			
WEIGHT 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		NUMBER	00.00	$\sim$	0.	0	0	C		0000	
FEIGHT 2   3.33   3.03   3.31   3.33   4.34   4.3		WEIGHT	00.00	0		0.0	•	0		00.00	
HEIGHT 0.71++ 0.43++ 0.85++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		WEIGHT	0.30	0		0.0		1			
LOEGING 0.47++ 0.40++ 0.35++ 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0			11+	43		0,0		, ,	9 1		
SHATTER 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		IODGING	+1+	+01	0	0.0	, ,	•		00.00	0.0
HARVEST 0.18 0.25 -0.11 0.00 0.00 0.00 0.00 0.00 0.00 0.0			00.00	0		0.0	, (				•
PLANT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			0.18	N		0.0	, ,	2	9	00.0	
WEIGHT -0.23 -0.24 0.03 0.00 0.00 0.00 0.00 0.00 CF SEED 0.00 0.00 0.00 0.00 0.00			00.00	0		0 0	, ,	, <		900	7.0
CF SEED 0.00 0.00 0.00 0.00			-0.23	0			, (				0 0
		QUALITY OF SEED	00.0		2		<i>)</i> (	2 (		-0.13	0-

CATE HARVESTEE - NOVEMBER, 1975

REGION - SOUTH AMERICA SITE - TINGO MARIA LATITUDE - 9 DEG. 18 MIN. S CCOELSATOR - M. LCEEZ CATE PANTED - JULY 15, 1975 SCIL TYPE - CLAY, EU 5.8 FERTILIZER USED (KG/HA) - P 60.0 AMCUNT OF MCISTURE - 549 MM

COUNTRY - PERU ELEVATION - 610 M LONGITUDE - 67 DEG. 1 MIN. W

YEAR 1975

EXPERIMENT 419

TABLE 194

ED)	QUALITY OF SEED	0		00.00	00.0	00.0	0.00	00.00	00.0	0.00	00.00	0.00	00.00	00.0	00.0	00.00	0.00	6	0.00	00.00	%00°0	00.00	PROB=.01)	00.0	00.0	00.00	00.0	00.00	00.00	00.00	00.0	00.0	00.0	00.0	00.0	00.00	1.00
(CCNTINUED	100 SEED WEIGHT	C	07.07	17.63	24.13	24.15	23.05	19.20	18.23	25.03	24.03	26.18	23.13	24.25	21.03	27.08	25.10	6	23.23	0.13	1.08%	0.36	++ - PRO	-0.23	-0.24	0.03	0.00	00°0	00.0	00.00	-0.13	-0.53++	00.00	0.14	00.00	1.00	00.0
XEAR 1975	PODS PER PLANT	0		00.0	0.00	00.00	00.0	0.00	00.00	0.00	00.00	00.0	00.0	00.0	0.00	00.00	00.00	0	0.00	00.0	0.00%	00 0	PROB=.05	0.00	0.00	00.00	00.0	00.00	00.0	00.00	00.0	00.0	00.00	00.0	1.00		00-0
419 YE	PLANTS BABVEST	100	07 * 44	1/3.50	163,25	141.75	166.50	148.50	137.50	156.50	181.00	152.50	174.25	136,50	106.75	164.75	173.75	: :	154.75	777 8	10.91%	24.09	+	0.18	0.25	-0.11	0.00	00.00	00.00	00.00	0.03	0.21	00.00	1.00	00.00	0.14	00 0
EXPERIMENT 4	SHATIER	00		00.1	1,00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1,00	4	1.00	00.00	0.00%	00.00	C N S	00.00	0.00	00.00	00.00	00.00	00.00	00.00	00.00	00.00	1.00	00.00	00.00	0.00	0.00
194 EX				Z															GRAND MEAN	VARIETY MEAN	VABIATION	(SN=******)	EIATI	KG/HA	FLOWER	M A		NUMBER	WEIGHT	国		LODGING		HA		138	CF SEED
TABLE	VARIETY OR CROSS	# # # # # # # # # # # # # # # # # # #		IMPROVED PELICAN	DAVIS	BOSSIER	FCRREST	WILLIAMS	HARDEE	CALLAND	WOODWORTH	COLUMBUS	TRACY	HAMPTON 266A	CLARK 63	SEMMES	CCBB				ICIENT	VARIETY MEANS (***	CCRR	YIELD	DAYS TO	DAYS TO	NODULE	NODULE	NCDULE	NCDULE	EL ANT			PIANTS	POLS PER	100 SEEE	VUALITY
	ENTER	*	- :	ন	-	ę	57	13	m	14	12	10	ယ	2	11	<u>(1)</u>	ш,			STANLA		A ISI AS															

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REGION - SOUTH AMERICA SITE - MARACAY LATITUDE - 10 DEG. 14 MIN. N CCOPFRATOR - SIMCN CHIEGA

CCUNTRY - VENEZUEIA ELEVATION - 450 M

TOLGING	COSCOOOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	F000 N10000	0.00 0.47 0.00 0.16 0.22 0.22
FLANT HEIGHT	107 00 63 00 63 00 80 00 98 00 98 00 98 00 68 00 68 00 68 00 68 00 69 00 81 00 81 00 81 00 81 00	0,000	0.00 0.17+ 0.00 0.52+ 0.27+ 0.00
NCDULE WEIGHT 2	000000000000000000000000000000000000000		
NODUIE WEIGHT 1	000000000000000000000000000000000000000		000000000000000000000000000000000000000
NOCULE NUMBER 2	000000000000000000000000000000000000000	0000	000000000000000000000000000000000000000
NODULE NUMBER 1	000000000000000000000000000000000000000		
DAYS TO	90.50 95.53 88.75 108.75 95.75 91.3) 90.75 97.75 97.75	S 22.70 0.931 1.993 0.13 0.00 0.00 0.00	0.00 0.00 0.00 0.36 0.36
LAYS TC FLOWER	40,50 32,93 28,50 28,50 39,50 31,75 31,50 42,50 42,50 28,00 32,03	3 m w w w 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 . 48 + 48 + 48 + 48 + 48 + 48 + 48 + 48
YIELD KG/HA	3467.35 3170.22 2976.01 2896.41 2780.14 2702.14 2702.21 2688.87 2425.07 224.62 1479.05 1479.05 1302.76 867.67	2245,31 297,98 297,98 850,46 0.21 0.21 0.00 0.00	0.20 0.20 0.75+ 0.75+ 0.24 0.24
	z.	UNAND MEAN UNANIETY MEAN OF VARIATION (**********  IELD KG/HA S TC FLOWER S TC MATURITY DULE NUMBER 1 DULE WEIGHT 1 DULE WEIGHT 1	
VARIETY OR CROSS	JUPITER SEMMES CALLAND DAVIS BOSSIER IMPROVED PELICAN HAMPTON 266A COLUMBUS FCRRIST CCEB TRACY HARDEE WILLIAMS	STANDARD FRROR OF A VAR. COFFECTENT OF COFFECTENT OF YIELD DAYS TG NCDULE NCDULE NCDULE NCDULE NCDULE	PLANT PLANTS POCS PER 100 SEED QUALITY
ENTEY	E 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

QUALITY OF SEEE	00.00	0.00	00.0	00.00	0.00	00.00	00.00	00.00	00.00	0.00	00.0	0.30	00.0	00.0	00.00	00.00	0.00	800-0	00.00	ROB=.01)	0.00	0.30	00.00	00.00	00.00	00.0	0.33	00.0	0.30	00.00	0.00	00.00	000
OO SEED WEIGHT	20.00	18.75	19.00	19.75	17.75	16.00	22.25	17.75	16.00	18.25	16.75	21.75	15.25	18.00	17.00				1.52	++ - PR											0.03		
PODS PER 1 PLANT	39.50	26.00	29.50	24.25	39.25	32.00	26.50	23.00	36,00	29.75	20.50	43.50	29.00	27,25	28.25	30.28	4.21	27.82%	12.02	PROB=.05											-0.15		
PIANTS I	138.25	148.25	136.50	124.75	113.75	143.25	141.75	137.25	117.00	137.30	121.00	51.50	75.75	82.75	28,75	111, 17	14.37	25.85%	41.00	+ + )	0.75++	0.05	-0.04	0.30	00.00	00.00	00.00	0.52++	0.16	00.00	1.33	-0.15	000
SHATTER	1.00	1.00	1.00	1.00	1.30	1.00	1.00	1.00	1.00	1.10	1.00	1.00	1.00	1.00	1.33	1.00	00.0	0.00%	00.00	C N S	0	0	0	0	0	0	0	0	~	0	0.00	0	¢
ENTEY VARIETY ALMEF OF CROSS	1 JUPITER	01	0	D	I	IMEROVED	Interest	0	H	0	1		13 WILLIAMS	LX	J			COEFFICIENT	ETY MFANS	CORREIATI	YIELD KG/HA	AYS. TC	E	22	Z	3	35		LCDGING		PLANTS HARVEST		51

